THE NATION'S URANIUM PROCESSING FACILITY

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This document has been reviewed by a Y-12 DC/ RO and has been determined to be UNCLASSIFIED, not UCNI, and contains no CUI based upon current classification guidance. This review does not constitute a review for CUI outside of classification guidance and does not constitute clearance for Public Release.
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REVISION LOG

Revision 12

☒ Intent ☐ Non-Intent Implements PRMS Requirements: ☒ Yes ☐ No

- These changes are in response to Condition Report 25774-000-GCA-GAM-05551, *Suspect/Counterfeit Bolts (No Manufacturer's Marking) Identified on Scaffolding (ORPS NA-UPO--CNS-UPFPROJ-2026-0006)*
  - Updated responsibilities for 2.2, *Project Field Engineer,* and 2.4 *Responsible Scaffold Superintendent*
  - Added new Section 3.7.3 regarding scaffold components with S/CI
- No forms have been edited as part of this revision
- Other changes include:
  - Updated references and acronyms
  - Editorial changes

Revision 11

☒ Intent ☐ Non-Intent Implements PRMS Requirements: ☒ Yes ☐ No

- No forms have been edited as part of this revision
- Added new number 12 to Appendix F regarding “Accessing Scaffold Ladders” and renumbered remaining paragraphs
- Added new number 8 to “Mobile (Rolling) Scaffolds” section on Appendix F
- Other changes include:
  - Updated references and acronyms
  - Editorial changes

Previous revisions on record

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1.0 INTRODUCTION

1.1 Purpose

This Procedure defines the standard work process for the erection, control, and dismantling of Scaffolding, associated safety process controls, and overall Scaffold material management.

1.2 Scope

This Procedure is applicable to all Scaffolding under the administrative control of the Uranium Processing Facility (UPF) Project. Applicability to subcontractor employees is specified in subcontract language.

2.0 RESPONSIBILITIES

2.1 Site Manager

The Site Manager is responsible for ensuring requirements of this Procedure are properly implemented.

2.2 Project Field Engineer

The Project Field Engineer (PFE) is responsible for:

- Ensuring requirements of this Procedure are properly implemented
- Supervising Field Engineering Personnel providing technical support of installation operations
- Ensuring that any identified suspect/counterfeit items (S/CI) are addressed in accordance with UPF procedure Y15-95-813, *Suspect/Counterfeit Item Prevention and Detection* and/or Engineering dispositions.
- Reviewing Scaffold Qualified Person education, training, certification, experience, and/or knowledge to determine the individual(s):
  - Possess a recognized degree, certification, or professional standing relating to the subject matter, the work, or the project

    OR
  - Demonstrate the ability to solve or resolve problems relating to the subject matter, the work, or the project through extensive knowledge, training or experience

NOTE: *The PFE will designate (in writing) to the Training Department, individual(s) who are capable of performing the responsibilities of the Scaffold Qualified Person.*

2.3 Project Field Superintendent

The Project Field Superintendent (PFS) is responsible for:

- Ensuring requirements of this Procedure are properly implemented
- Coordinating to ensure Craft labor is available to support Project needs

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2.4 Responsible Scaffold Superintendent

The Responsible Scaffolding Superintendent (RSS) is responsible for:

- Optimizing the purchase, buyback, and/or rental options of required Scaffolding materials
- Arranging for supplementary/remedial training on Scaffolding as necessary
- Coordinating with the PFS and Procurement for the supply of Scaffold material
- Ensuring supplied Scaffold material meets acceptable standards and requirements
- Ensuring supplied Scaffold material and labor is forecasted and requisitioned to meet the Project schedule
- Ensuring a process is in place to capture Scaffolds priorities with Area Superintendent, Discipline Superintendent, and/or PFS input to ensure Scaffold completions support the overall Project schedule
- Ensuring Scaffolds are built IAW manufacturer or Scaffold Qualified Person design(s)
- Ensuring Scaffold material traceability is maintained between Project-purchased Scaffolding and rented Scaffolding, as applicable
- Ensure that any identified S/CIs are addressed in accordance with UPF procedure Y15-95-813 and/or Engineering dispositions
- Reviewing knowledge, training, and/or experience to determine the Scaffold Competent Person(s):
  - Are capable of identifying existing and predictable hazards (e.g., conditions likely to exist) relative to the work activity

    AND
  - Have the requisite knowledge to control or eliminate the identified hazards

NOTE: *The RSS will designate (in writing) to the Training Department, individual(s) who are capable of performing the responsibilities of the Scaffold Competent Person.*

2.5 Scaffold Coordinator

The Scaffold Coordinator is responsible for:

- Coordinating and tracking Scaffold material supply
- Maintaining a centralized inventory system of Scaffolding purchased and/or rented
- Tracking material inventory changes and producing Scaffold metrics

NOTE 1: *Scaffold Coordinator responsibilities may be completed by assigned Craft or non-Manual personnel (or a combination of both), at the discretion of the RSS.*

NOTE 2: *The Electronic Scaffold Management System exists within Process Director, which is managed IAW Y60-95-015,* Uranium Processing Facility Software Quality Assurance*.*

2.6 Scaffold Erection General Foreman/Foreman

The Scaffold Erection General Foreman/Foreman is responsible for:

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- Identifying Scaffold material needs for each individual Scaffold request
- Ensuring Scaffolds are built complete and in a safe manner
- Ensuring Craft personnel performing Scaffolding work possess the Scaffold Erector qualification (D 51321521/Q 51321522)
- Ensuring Competent Person activities are only performed by individuals possessing the Scaffold Competent Person qualification (D 51562369/Q 51562370)
- Defining the type, size, and materials required by conducting a field walk with the Scaffold Requestor for each build or modify request
- Identifying and implementing efficiency opportunities for combining multiple, individual Scaffold requests into multi-use Scaffolds

NOTE: *A Union refresher course is required every four years to maintain the Scaffold Erector qualification.*

2.7 Scaffold Competent Person

The Scaffold Competent Person (typically one or more of the Scaffold Erection General Foreman/Foreman or Scaffold Builders) is responsible for:

- Ensuring Scaffolds are built and maintained according to requirements
- Ensuring Scaffolds are properly tagged
- Inspecting Scaffolds that will be used each shift prior to the commencement of each shift
- Ensuring Scaffolds are built per manufacturer or Scaffold Qualified Person design

NOTE 1: *The Scaffold Competent Person is appointed by the RSS.*

NOTE 2: *As a prerequisite, a Scaffold Competent Person should possess the Scaffold Erector qualification (D 51321521/Q 51321522).*

2.8 Scaffold Qualified Person

The Scaffold Qualified Person (typically one or more Field Engineers) is responsible for:

- Designing custom, non-standard Scaffolds that deviate from manufacturer design/guidance
- Coordinating with Scaffold Vendor Technical Representatives, as needed, to resolve technical/engineering questions/concerns
- Developing Scaffold installation guides/aides as requested by the RSS

NOTE: *The Scaffold Qualified Person (D 51564037/Q 51564038) is appointed by the PFE.*

2.9 Discipline Superintendent (or Subcontractor Technical Representative for Subcontractor Scaffold Requests)

The Discipline Superintendent (or Subcontractor Technical Representative [STR] for Subcontractor Scaffold Requests) is responsible for:

- Planning installation activities that require Scaffolding IAW construction schedules

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- Ensuring “required by” Scaffold request dates are populated IAW the Project schedule so Scaffold priorities are consistent with Project schedule demands
- Identifying and coordinating potential opportunities for multi-use Scaffold access needs with the PFS, the RSS, and other Discipline Superintendents
- Ensuring Scaffolds are inspected prior to use, suitable for intended user loads, and crews are adequately trained to perform work on Scaffolds
- Ensuring a Scaffold is necessary (i.e., the lowest risk option for all workers, including Scaffold erectors) and alternate access means are not available
- Providing Scaffold request priority input to the RSS or Scaffold Coordinator, as required
- Delegating/directing Scaffold Requestor input into the Electronic Scaffold Management System

2.10 Scaffold Requestor

The Scaffold Requestor (typically Discipline Superintendent/STR or designee) is responsible for:

- Determining whether a Scaffold is absolutely necessary (i.e., the lowest-risk option for all workers, including Scaffold erectors) and alternate access means are not available
- Requesting Scaffolds and ensuring entry into the Electronic Scaffold Management System
- Coordinating access to the work area for Scaffold assembly, modification, and removal

2.11 BNI Environmental, Safety, and Health Manager

The Bechtel National, Inc. (BNI), Environmental, Safety, and Health (ES&H) Manager is responsible for oversight to ensure compliance with all UPF, National, Federal, State, and local Scaffold safety requirements.

2.12 Scaffold Yard Foreman

The Scaffold Yard Foreman is responsible for:

- Receiving Scaffold materials
- Performing initial receipt inspection of Scaffold material to ensure quality attributes listed in **Section 3.7, *Scaffold Inspection***
- Reporting discovered S/CIs to the SCIC IAW Y15-95-813
- Signing Kick and Count form from the Material Receiving Report to document receipt inspection IAW Y30-95-809, *UPF Field Procurement Material Receiving*
- Preparing Scaffold deliveries to support individual Scaffold requests
- Working with the Scaffold Coordinator to maintain an inventory of Scaffold materials throughout the duration of a project
- Implementing material traceability actions

NOTE: *Scaffold Yard Foreman will possess Scaffold Competent Person qualification (D 51562369/Q 51562370) and S/CI Receipt Inspection qualification (Q 51509286).*

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2.13 Scaffold User

The Scaffold User is responsible for:

- Identifying the need to use existing, standing Scaffolds by initiating a “Scaffold User” request in the Electronic Scaffold Management System to prevent premature dismantle
- Ensuring touching-the-tag before each use to ensure a Scaffold inspection has been completed for the shift
- Indicating on the Scaffold request when intended use will require Scaffold capacity greater than light duty (i.e., 25 pounds per square foot)
- Ensuring Scaffold is not loaded in excess of its duty rating
- Ensuring rigging from Scaffold parts, or otherwise using Scaffold members to support user-commodities is not done unless the Scaffold has been designed to assume the anticipated loads. Check with a Scaffold Competent Person
- Discontinuing exposed, exterior Scaffold use when snow/ice begin to accumulate or storms/high winds occur and notifying a Scaffold Competent Person prior to resuming use
- Maintaining housekeeping and accumulation of materials to prevent dropped objects, as well as repairing debris netting, as needed
- Notifying Scaffold erectors when toe board, or other dropped-object prevention controls need repair, with the exception of debris netting which is the responsibility of the user
- Utilizing barricading, as required, when Scaffold dropped-object controls (e.g., mesh, toe boards) are incomplete OR when hoisting material outside of the dropped object confines of the Scaffold

3.0 PROCESS

3.1 General

The planning and control of work is completed IAW Y17-95-64-800, *UPF Construction/Startup Work Control Program*.

NOTE: *The forms located in the appendices of this Procedure may be modified at the discretion of the PFE.*

3.2 Work Planning

3.2.1 The PFS ensures a Scaffold material management system has been implemented that can manage Scaffold component inventories, cost, location of Scaffold material, and monitor erected Scaffolds and inspections by tag.

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3.2.2 The PFS ensures Scaffold users are trained in the hazards associated with the various types of Scaffolds and understand the procedures to control or minimize hazards, including:

- Electrical, fall, and dropped-object hazards in the work area, and how to deal with these hazards
- Fall and dropped-object protection systems
- Proper use and maximum intended load of Scaffolding

3.2.3 The PFS ensures the Electronic Scaffold Management System is used when requesting a Scaffold (refer to **Appendix C, *Scaffold Request Form Instructions ([Sample]***) and ensures the Scaffold request process is being followed (refer to **Appendix B, *Scaffold Request Process Flowchart***).

3.2.4 The RSS, with input from Discipline Superintendents, identifies large and critical Scaffold builds and develops a 90-day Scaffold plan in conjunction with other disciplines (e.g., mechanical, piping). The plan should include forecasted tons and job hours.

3.2.5 The Scaffold Requestor initiates the requests for new builds, modifications, user, and dismantling scopes.

The Discipline Superintendent or STR reviews and approves the request, ensuring the Scaffold is necessary for access, alternate access means are not available, and the request details are correct.

The RSS reviews and approves the request and ensures the proper cost code is identified for charging of Scaffold erection labor hours.

NOTE 1: *Generally, the Scaffold request must be submitted at least three working days prior to the date the Scaffold is needed. All Major and Secondary Scaffold requests must be submitted at least 10 working days in advance.*

NOTE 2: *A new request is required for a modification to an existing Scaffolding. Minor changes (e.g., move a single handrail, notch a toe board) may be dealt with in the field as coordinated with the Scaffold Foreman. A new request must be used whenever Scaffold parts will be added or removed from the Scaffold to ensure inventory control.*

3.2.6 The Scaffold Coordinator ensures each request is then reviewed by the Scaffold General Foreman/Foreman, or designee, to perform a field walk to determine the optimum Scaffold configuration, required materials, and estimated man hours.

3.2.7 The Scaffold Coordinator, or designee, ensures the Scaffold request requirements/estimates are logged.

NOTE: *Conducting priority meetings with key field supervision members is recommended to ensure work is aligned.*

3.2.8 The RSS ensures a weekly coordination of areas/disciplines is completed to ensure overall Project schedule priorities advance. The PFS will support this effort, as needed, to ensure overall coordination of competing priorities.

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3.2.9 During erection, the hours and materials associated with each Scaffold request are tracked until the Scaffold is completed. These details are provided to the Scaffold Coordinator.

3.2.10 The Responsible Scaffold General Foreman/Foreman ensures completion of the Scaffold request, showing the size of the Scaffold and the date erected, modified, or dismantled, as appropriate. Additionally, a final list of actual materials used/removed must be completed.

3.2.11 The Scaffold Coordinator logs hours and materials used for each Scaffold request, once completed.

3.2.12 The RSS ensures each Scaffold is uniquely numbered (e.g., by area/unit/structure or equipment). The number should be placed both on the Scaffold tag(s) and the request. The Scaffold Competent Person shall inspect each new Scaffold and sign the Scaffold tag(s) before it is released for use.

3.3 Materials

3.3.1 The Scaffold Competent Person, shall ensure mingling or mixing of products of different manufacturers (whether Tube and Coupler or Fabricated Frame) does not occur unless physical dimensions and strength characteristics are maintained. As necessary, engage the Scaffold Qualified Person to verify strength characteristics.

3.3.2 The RSS is ultimately responsible for keeping inventory of all Scaffolding materials on the jobsite. The RSS, in coordination with UPF Construction Distribs and Procurement, ensures the creation of the necessary documents to order or demobilize additional Scaffold materials. Consult manufacturer's recommendations for guidance on proper handling, storage, and shipment of Scaffolding materials.

3.3.3 The RSS ensures materials are stored in a centralized Scaffold yard. The Scaffold Yard Foreman manages the inventory of materials and assignment of material for each Scaffold request.

3.3.4 Scaffold material shall not be cut or modified without authorization from the RSS. The RSS must ensure material traceability and strength characteristics are maintained.

3.4 Scaffold Metrics

3.4.1 The RSS/PFS establishes a process to collect Scaffold metrics similar to that shown in the Scaffold Metrics (**Appendix D, *Sample Metrics***) including:

- Number of Craft hours expended for each build, modify, or dismantle request
- Units of measure (e.g., piece, volume, or ton) completed for each build, modify, or dismantle request
- Lead time for Scaffold requests by Area, Discipline, and Requestor
- Scaffold part utilization/location by component type
- Number of requests completed and outstanding by area and by discipline
- Estimated material on site against forecasted demand by tons

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Metrics collected need to establish a measure of productivity and overall status of Scaffold requests, but do not have to match exactly as listed above.

3.4.2 The RSS ensures the total Craft hours reported on the metric collection form match the hours charged on the Scaffold crew timesheets (i.e., carpenters and tenders at the direct Scaffold work face location).

The number of Craft hours per Scaffold should be calculated based on the metrics to assist in determining the actual cost of Scaffolds.

The indirect support time contribution to overall Scaffold time charges should be considered when preparing estimates by using historical and actual ratios.

3.5 Scaffold Safety

3.5.1 Free climbing of scaffold structures should be avoided. Only scaffold builders are allowed to free climb a scaffold structure. Climbing Scaffold structures in any direction above a height greater than 6 ft. requires a Personal Fall Arrest System (e.g., harness and retractable lifeline) tied off to an acceptable anchor point. Free Climbing does not include climbing installed Scaffold ladders. Refer to UPF-MANUAL-SH-A001, *UPF Elevated Work Manual*, for Fall Protection and Falling Object Prevention guidance.

3.5.2 Ensure an adequate working surface during erection/dismantlement activities (e.g., provide two pans or planks during process of building/dismantling Scaffold).

3.5.3 The PFS shall ensure Scaffolds comply with applicable requirements, including (as appropriate) Bechtel, Federal Occupational Safety and Health Association (OSHA), state, and local requirements. **Appendix F, *Safety Requirements for Scaffolding***, highlights safety requirements for Scaffold erection and use. **Appendix F** is not an exhaustive list. The PFS and RSS will ensure all safety requirements are understood and followed.

NOTE: *Refer to 29 Code of Federal Regulations (CFR) 1926, Subpart L,* Scaffolds*, requirements at http://www.osha.gov.*

3.5.4 The RSS shall ensure Scaffolds are constructed IAW design criteria provided by vendor technical documents and/or designs developed by a Scaffold Qualified Person, including:

- All Scaffolds over 125 ft. (38 m) in height from their baseplates shall be designed by a registered Professional Engineer
- Pole Scaffolds are required to be designed by a registered Professional Engineer (29 CFR 1926.452[a][10])

NOTE: *(29 CFR 1926.451[a][6]) Appendix A to Subpart L contains guidelines to assist employers in complying with the Scaffold design requirements of 29 CFR 1926, Subpart L. American National Standards Institute (ANSI)/American Society of Safety Professionals (ASSP) A10.8-2019, Sc*affolding Safety Requirement*, should also be referenced.*

3.5.5 The RSS shall ensure Scaffolds are erected, moved, dismantled, or altered under the supervision and direction of a Scaffold Competent Person. Such activities will be

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performed by experienced and trained employees selected for such work by the Competent Person (29 CFR 1926.451[f][7]).

3.5.6 The PFS ensures adjustable Suspension Scaffolds are subject to the same tagging and inspection requirements as supported Scaffolds.

3.5.7 Scaffold decks (walking/working surfaces) will not have a change in elevation of greater than 24 inches from one Scaffold platform to another. For any change of elevation greater than 24 inches, an access (ladder or step) will be provided.

3.6 Load Capacity

3.6.1 The RSS shall ensure each Scaffold and Scaffold component is capable of supporting its own weight and at least four times the maximum intended load applied or transmitted to it (29 CFR 1926.451[a][1]).

NOTE: *Materials shall be evenly distributed on platforms and not concentrated in one area. Access platforms must not be used to store heavy materials such as cable, valves, blind flanges, etc., unless specifically designed and constructed to do so.*

3.6.2 The RSS shall ensure suspension ropes, including connecting hardware, used on non-adjustable Suspension Scaffolds are capable of supporting at least six times the maximum intended load applied or transmitted to that rope (29 CFR 1926.451[a][3]). Each suspension rope, including connecting hardware, used on adjustable Suspension Scaffolds shall be capable of supporting at least six times the maximum intended load applied or transmitted to that rope with the Scaffold operating at either the rated load of the hoist, or two (minimum) times the stall load of the hoist, whichever is greater (29 CFR 1926.451[a][4]).

3.7 Scaffold Inspection

3.7.1 Refer to Y30-95-809 and **Section 2.12, *Scaffold Yard Foreman***, for initial Scaffold material receipt inspection requirements**.**

3.7.2 The Scaffold Competent Person shall inspect Scaffolds and Scaffold components for visible defects before each work shift and after an occurrence that could affect a Scaffold's structural integrity (29 CFR 1926.451[f][3]). Any defective components shall be immediately removed from use and properly tagged.

3.7.3 All scaffold components with S/CI (i.e., ATPAC Beam Clamps, Ladder Brackets) must be reported to SCIC in accordance with Y15-95-813. Upon project completion, and prior to excessing equipment, segregate all S/CI scaffold components, hold them in the designated S/CI project area and notify BNI QA SCIC.

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3.7.4 The Scaffold Competent Person shall ensure the Scaffold is tagged (i.e., Green, Yellow, Red, or White as defined in **Section 3.8, *Scaffold Tagging***), then sign and date the tag.

3.7.5 The Scaffold Erector shall inspect Scaffold components before erecting and while dismantling. Scaffold components must be straight and free from bends, kinks, dents, and severe rusting (prevents part from achieving designed fit, form, function, or strength). Defective components shall be returned to the Scaffold yard, segregated, tagged as damaged and accounted for.

Inspections shall include the following:

- Elevated surfaces (e.g., beams, platforms) for loose, abandoned items that need to be addressed/removed prior to dismantle
- Components straight and free from bends, kinks, dents, and detrimental rusting
- Cracked welds
- Tube ends for splits or cracks
- Manufactured decks for loose bolts or rivet connections and bends, kinks, or dents
- Plywood free from softening attributed to rot, wear, or delamination at edges
- Casters free of rough rolling surfaces, sticky swivels, and defective locks
- Tie rods, bolts, angle iron cleats, cams, springs, threads, clamps, toggle pins, other quick connecting devices for any damage
- Scaffold planks for rot, cracks, cuts, and other damage
- S/CIs

NOTE: *Component inspections do not need to be documented.*

3.7.6 The RSS shall ensure Scaffolding and Scaffold components are maintained IAW the manufacturer's instructions; fittings are serviced with manufacturer approved lubricant; and partially damaged tubes and planks are cut to usable lengths.

3.8 Scaffold Tagging

3.8.1 The PFS shall ensure the use of Scaffold tagging and:

- A Scaffold Competent Person tags all Scaffolds
- No one shall work from an untagged Scaffold
- Untagged Scaffolds shall be "off limits" to all personnel not authorized or qualified (refer to **Section 2.6, *Scaffold Erection General Foreman/Foreman***) to erect, dismantle or make repairs to Scaffolds

3.8.2 Scaffold tagging procedures shall not be used as a substitution to build a complete Scaffold (i.e., all Scaffolds should be built as complete as possible). However, the potential fall exposure to Scaffold Erectors should also be considered during work planning and the overall lowest-risk option selected.

3.8.3 When a Scaffold deck is constructed with two differently rated duty capacities (i.e., light, medium, or heavy), the different capacity sections are to be clearly tagged and separated with guardrail and/or gates.

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3.8.4 The Scaffold tagging system shall meet requirements for Green, Yellow, Red, White, and Blue tags illustrated and defined in **Appendix G**, ***Scaffold Tagging Requirements*****.** Required location of tags is illustrated in **Appendix E, *Example Guidelines for Tagging Scaffolds*****.**

NOTE 1: *Yellow tags are not to be placed on Scaffold as a status of non-structural items such as poor housekeeping or missing/damaged debris netting.*

NOTE 2: *Ensure the White Tag is signed with proper date for the tier(s) to be worked on as well as the tags at those tier(s) identified on the White Tag so work can be performed on specific tier(s) without having to Red Tag the entire Scaffold. Scaffold competent person should be contacted if discrepancies between color tags and the White Tag are found.*

NOTE 3: *For Scaffolds that do not have a swing gate, Green, Yellow, and Red tags will be hung on the vertical Scaffold standard (leg) at the access point for the Scaffold platform level(s).*

NOTE 4: *If the White Tag is signed with proper date, the tier(s) identified on the White Tag can be accessed to allow verification of signature/date. Craft must still tie off on a Yellow Tag tier while verifying the tag signoff/date.*

The PFS ensures the Scaffolding is collected and removed from the site when Scaffolding is no longer needed.

4.0 RECORDS

None

5.0 REFERENCES

5.1 Source References

4MP-T11-M105, *Work Process Procedures*

4MP-T81-02103, *Scaffold Control and Management*

Integrated Work Process Procedure (IWPP) 001, *Supply Chain*

5.2 Interfacing References

29 CFR 1926, *Safety and Health Regulations for Construction*

2HO-E0S0-00003-001, *BESH Health & Safety Fall Prevention and Protection Program Guideline*

ANSI/ASSP A10.8-2019, *Scaffolding Safety Requirement*

BESH Core Process CP 212, *Fall Prevention and Protection*

UPF-MANUAL-SH-A001, *UPF Elevated Work Manual*

Y15-95-813, *Suspect/Counterfeit Item Prevention and Detection*

Y17-95-64-800, *UPF Construction/Startup Work Control Program*

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Y30-95-809, *UPF Field Procurement Material Receiving*

Y60-95-015, *Uranium Processing Facility Software Quality Assurance*

5.3 Forms

None

6.0 SUPPLEMENTAL INFORMATION

Appendix A, *Acronyms and Definitions*

Appendix B, *Scaffold Request Process Flowchart*

Appendix C, *Scaffold Request Form Instructions (Sample)*

Appendix D, *Sample Metrics*

Appendix E, *Example Guidelines for Tagging Scaffolds*

Appendix F, *Safety Requirements for Scaffolding*

Appendix G, *Scaffold Tagging Requirements*

Appendix H, *Clamped Scaffold Ladder Guide*

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APPENDIX A
Acronyms and Definitions

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Acronyms

ANSI - American National Standards Institute 12
ASSP - American Society of Safety Professionals 12
BNI - Bechtel National, Inc. 8
CFR - Code of Federal Regulations 12
ES&H - Environmental, Safety, and Health 8
IAW - In Accordance With 5
OSHA - Occupational Safety and Health Association 12
PFE - Project Field Engineer 5
PFS - Project Field Superintendent 5
RSS - Responsible Scaffolding Superintendent 6
S/CI - Suspect/Counterfeit Item 5
SCIC - Suspect/Counterfeit Item Coordinator 5
STR - Subcontractor Technical Representative 7
UPF - Uranium Processing Facility 5

Definitions

Competent Person	A person who is capable of identifying existing and predictable hazards in the surrounding area or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate these hazards (29 CFR 1926.450).
Electronic Scaffold Management System	A web- or application-based software system used to generate and manage Scaffold requests; track and maintain material inventories; and produce data that can be used to generate performance metrics.
Fabricated Frame Scaffold (Tubular Welded Frame Scaffold)	A Scaffold consisting of platforms supported on fabricated end frames with integral posts, horizontal bearers, and intermediate members (29 CFR 1926.450). Some manufacturers refer to fabricated frame products as “sectional” Scaffolding.
Major Scaffold	A Major Scaffold is typically large, complex, and intended for multiple discipline uses (e.g., stair towers greater than 40 ft. [20 m] in height, larger area hanging Scaffolds, complex cantilever, special loading Scaffolds and all Scaffolds that must be engineered).
Minor Scaffold	A Minor Scaffold is typically small, lacks complexity, and can be erected in a quick period of time (e.g., simple volume Scaffold, single- and multi-tier Scaffolds less than 20ft [6m] and small rolling Scaffolds)
Mobile (Rolling) Scaffold	A powered or unpowered, portable, caster, or wheel-mounted, supported Scaffold

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	(29 CFR 1926.450).

APPENDIX A
Acronyms and Definitions

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Personal Fall Arrest System	A system used to arrest an employee in a fall from a working level. It consists of an anchorage, connectors, a body belt or body harness and may include a lanyard, deceleration device, lifeline, or suitable combinations of these.
Qualified Person	A person who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated their ability to solve or resolve problems related to the subject matter, work, or the project (29 CFR 1926.450).
Scaffold	Any temporary elevated platform (supported or suspended) and its supporting structure (including points of anchorage), used for supporting employees, materials, or both (29 CFR 1926.450).
Scaffold User	Any personnel whose work requires them to be supported by Scaffolding in order to access the area of a structure where that work is performed (29 CFR 1926.450).
Secondary Scaffold	A Secondary Scaffold is typically a large structure with moderate complexity that requires pre-planning to ensure it addresses the needs for the end user (e.g., large area birdcage Scaffolds, simple cantilever Scaffolds, simple hanging or suspended Scaffolds, and stair towers from 20–40 ft. [6–12 m] in height).
Suspect/Counterfeit Item (S/CI)	An item is suspect when visual inspection or testing indicates that it may NOT conform to established government or industry-accepted specifications or national consensus standards or whose documentation, appearance, performance, material, or other characteristics may have been misrepresented by the supplier or manufacturer. A counterfeit item is one that has been copied or substituted without legal right or authority or whose material, performance, or characteristics have been misrepresented by the vendor, supplier, distributor, or manufacturer (Y15-95-813).
Suspension Scaffold	One or more platforms suspended by ropes or other non-rigid means from overhead structures (29 CFR 1926.450). An adjustable Suspension Scaffold is a Suspension Scaffold equipped with a hoist or hoists that can be operated by an employee(s) on the Scaffold (29 CFR 1926.450). Adjustable Suspension Scaffolds can be single-point, two-point (swing stage), or multi-point. **NOTE:** *This Scaffold must have an independent tie off point separate from the Scaffold.*
System Scaffold	A Scaffold consisting of posts with fixed connection points that accepts runners, bearers, and diagonals that can be interconnected at predetermined levels (29 CFR 1926.450).

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APPENDIX A
Acronyms and Definitions

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Tube and Coupler (or Clamp) Scaffold	A supported or hung Scaffold consisting of platforms supported by tubing, erected with coupling devices connecting uprights, braces, bearers, and runners (29 CFR 1926.450). **NOTE:** *Both System Scaffold and Tube and Coupler Scaffold can be hung (suspended) without the need of independent tie-off points and can be green tagged if all relevant criteria have been met for a green tagged Scaffold. This kind of Scaffold should not be confused with Suspension Scaffolds described in* ***Section 2.11, BNI Environmental, Safety, and Health Manager****.*

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APPENDIX B
Scaffold Request Process Flowchart

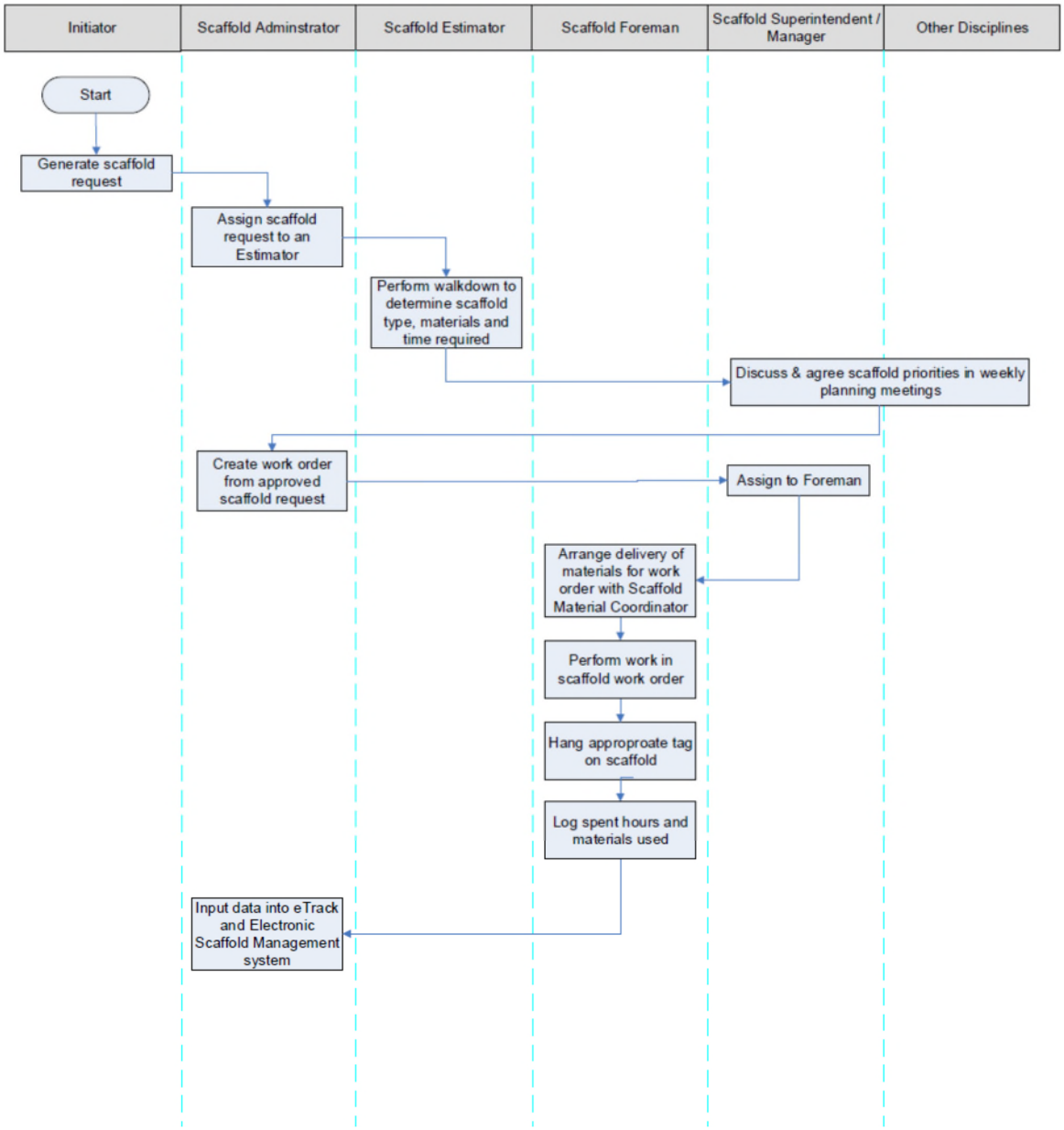


Figure B-1. Scaffold Request Process

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APPENDIX C
Scaffold Request Form Instructions (Sample)

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The Craft foreman/superintendent requiring a Scaffold be built, modified, or dismantled should initiate the Scaffold request using the Scaffold Request Form. The Scaffold Request Form should be submitted three to 10 working days before the need dates, depending on complexity (minor, secondary/major), to give the Scaffold crews sufficient time for manpower and material planning. The Discipline Superintendent or STR reviews and approves the request, ensuring the Scaffold is necessary for access and alternate access means are not available, and the request details are correct. The RSS reviews and approves the request and ensures the proper cost code is identified for charging of Scaffold erection labor hours.

The Scaffold General Foreman/Foreman or Responsible Scaffold Superintendent should fill out the bottom portion of the request once erection/dismantling is complete.

Entry	Description
TO BE FILLED OUT BY REQUESTING FOREMAN / SUPERINTENDENT	
Request Date	Enter the date the request is completely filled out (month / day / year)
Scaffold Tag Number	Enter the unique scaffold number (i.e. area / unit / structure / or equipment). This number is to be filled out by the Scaffold Foreman / Superintendent.
Required Date	Enter the anticipated date the scaffold is required. If work is continuing around the clock, please specify shift (i.e. day-shift 4/15/04).
Location (include sketch as required)	Specify the location of the required scaffold. Be as specific as possible. Use area / unit / structure / equipment / position (i.e. north, south, east, west). If necessary, include a sketch.
Build / Modify / Dismantle	Check the appropriate scaffold request. Build – new scaffold, Modify – Change existing scaffold, Dismantle –remove scaffold.
Description	Enter a brief description of the scaffold requested. At a minimum the description should include work area (in ft^2 or m^2) and the approximate elevation of the working deck (i.e. el. 760' or 3 m above TOC)
Required For	Enter a the work scope that is dependent upon the scaffold erection or modification (i.e. weld out valve TI-36 SG No. 1, assemble cable tray NE Wastewater Building)
To be Filled Out by Scaffold Foreman / Scaffold Superintendent	
Scaffold Erection Labor Cost Code	Enter the Cost Code for erecting the scaffold. If in question, check with Responsible Superintendent and/or Project Controls.
To Be Filled Out by Requesting Foreman / Superintendent	
Requested By	Enter the name of the Requestor along with the appropriate craft (i.e. Joe Smith, Pipefitters)
Approved By (RS)	The Responsible Superintendent is to sign upon review of the form.
To Be Filled Out by Scaffold Foreman / Scaffold Superintendent	
Date Erected / Modified	Enter the date the scaffold was erected or modified. If the work was done over several days specify range (i.e. 8/4/04 to 8/6/04). If multi-shift work is being conducted specify (i.e. day-shift 8/3/04 to night-shift 8/4/04).
Date Dismantled	Enter the date the scaffold was dismantled. If the work was done over several days specify range (i.e. 8/4/04 to 8/6/04). If multi-shift work is being conducted specify (i.e. day-shift 8/3/04 to night-shift 8/4/04).
Size	Enter the size in scaffold pieces required of the scaffold work whether it was modified or erected. Details to be added from the scaffold estimate or via an electronic estimating tool.
Labor Hours	Enter the total number of man-hours for the erection / modification of the scaffold (i.e. 20 hours – 4 men worked 5 hours)
Comments	Enter any pertinent comments (i.e. unexpected delays, change of plans, etc.)
Scaffold Foreman	The scaffold foreman is to print and sign his or her name.

Figure C-1. Scaffold Request Form Instructions

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APPENDIX C
Scaffold Request Form Instructions (Sample)
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SCAFFOLD REQUEST FORM
Project Name:
Project Number:

Request #: _____
Date: _____
Scaff Tag No. _____

General Information

Requested By _____ Contact # _____
Area _____ Scaff Supervisor _____
Location _____ Date Required _____
Purpose of Scaffold _____
Grid Line _____
Estimated Removal Date _____

Request by Area ☐ Area A ☐ Area B ☐ Area C ☐ Area D *(EDIT AREAS AS REQ.)*

Request by Discipline ☐ Structural ☐ Piping ☐ Electrical ☐ Mechanical ☐ Paint ☐ Insulation ☐ Civil ☐ Other ☐ Multi-Craft

Attachments
☐ Layout / Drawings ☐ Photo of Location ☐ Sketch ☐ Other

Notes / Remarks
_____
_____

Requestor Signature _____

Scaffold Use Only

Scaffold Type:
☐ 01. Tower Scaffold: Standing from Grade
☐ 02. Independent Scaffold
☐ 03. Suspended Scaffold
☐ 04. Cantilever Scaffold
☐ 05. Bridge Scaffold
☐ 06. Scaffold for Internal Work (Confined Space)
☐ 07. Fully Decked / Additional Decking
☐ 08. Guardrail / Barrier
☐ 09. Ladder Beams / Unit Beams
☐ 10. Stairwell Access System
☐ 11. Modification Works
☐ 12. Mobile Scaffold
☐ 13. Other

Scaffold Dimensions

	Estimate	UoM	Actual
Base Height			
Length			
Width			
Height			
No. of Decking			
# of Pieces			
Tons			

	Qty	Hrs.
Manpower		
Foreman		
Total		

Erection & Modification Authorization

Discipline Superintendent (Requested by)
Print Name: _____
Date: _____

Scaffold Superintendent (Acknowledged by)
Print Name: _____
Date: _____

Dismantle Authorization

Discipline Superintendent (Requested by)
Print Name: _____
Date: _____

Scaffold Supt (Acknowledged by)
Print Name: _____
Date: _____

Figure C-2. Scaffold Request Form

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APPENDIX D
Sample Metrics

Scaffold Erection Performance				
	Qty (no. of scaffolds)	No. Pieces	Hours	Minutes / Piece
Area A				
Built				
Modified				
Dismantled				
Sub-total				
Area A				
Built				
Modified				
Dismantled				
Sub-total				
TOTAL				

Scaffold Management Performance				
	Qty of Requests	Requests Planned	Requests Completed	Avg Lead Time / Request
Area A				
Structural				
Piping				
Mechanical				
Electrical				
Paint				
Insulation				
Civil				
Multi-Craft				
Other				
Area B				
Structural				
Piping				
Mechanical				
Electrical				
Paint				
Insulation				
Civil				
Multi-Craft				
Other				

SAMPLE

Form 4MP-T81-02103-D, Scaffold Control and Management – Rev. 4

NOTE: Hours entered above must equal total hours charged on daily timesheets to scaffolding cost codes including Foremen and General Foremen time.

NOTE: This form is to be used when electronic scaffold management systems are not in use. When using electronic scaffold management systems, contact BEO for alternate scaffold metric tools.

Figure D-1. Sample Metrics

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APPENDIX E
Example Guidelines for Tagging Scaffolds

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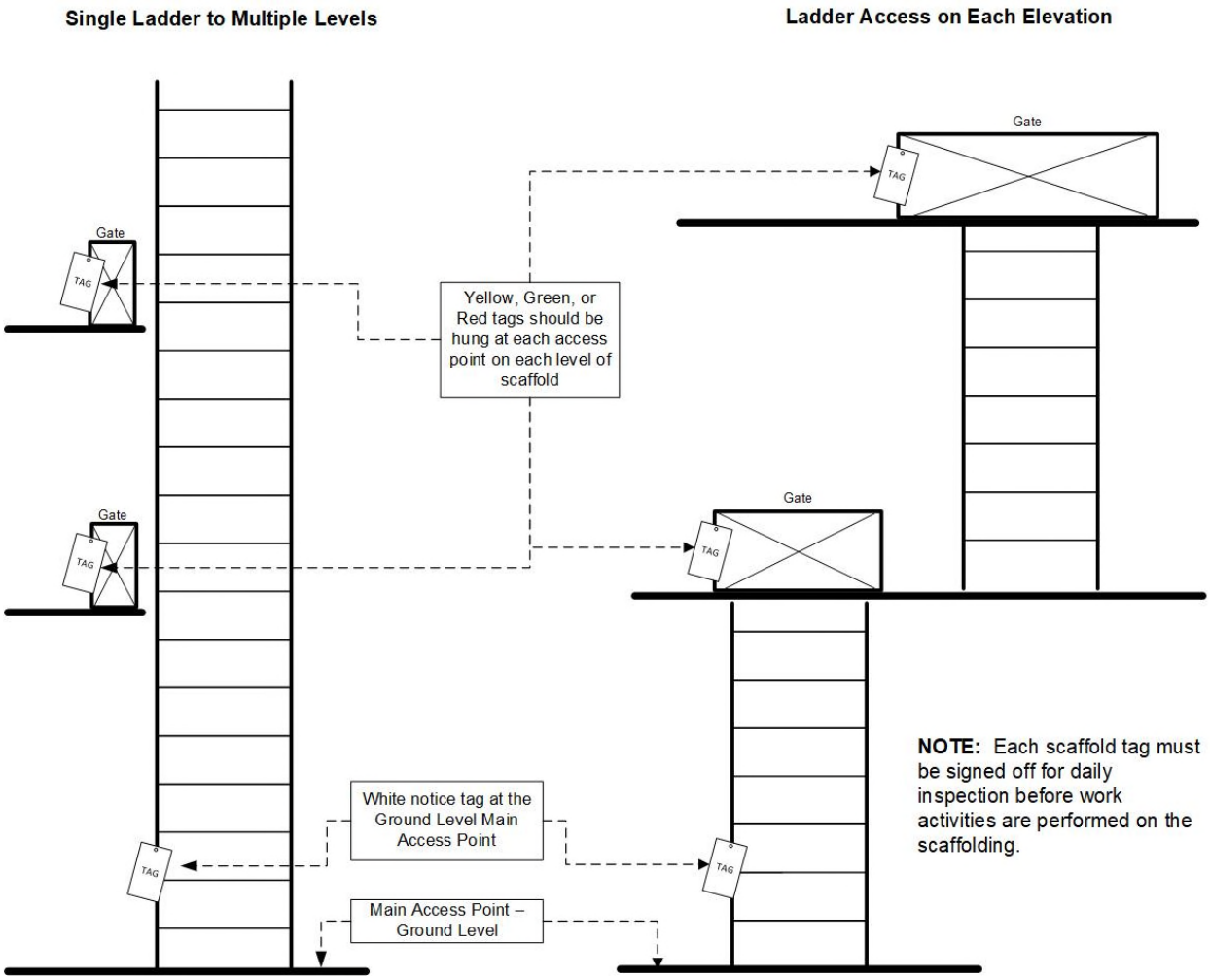


Figure E-1. Guidelines for Tagging Scaffolds

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APPENDIX E
Example Guidelines for Tagging Scaffolds

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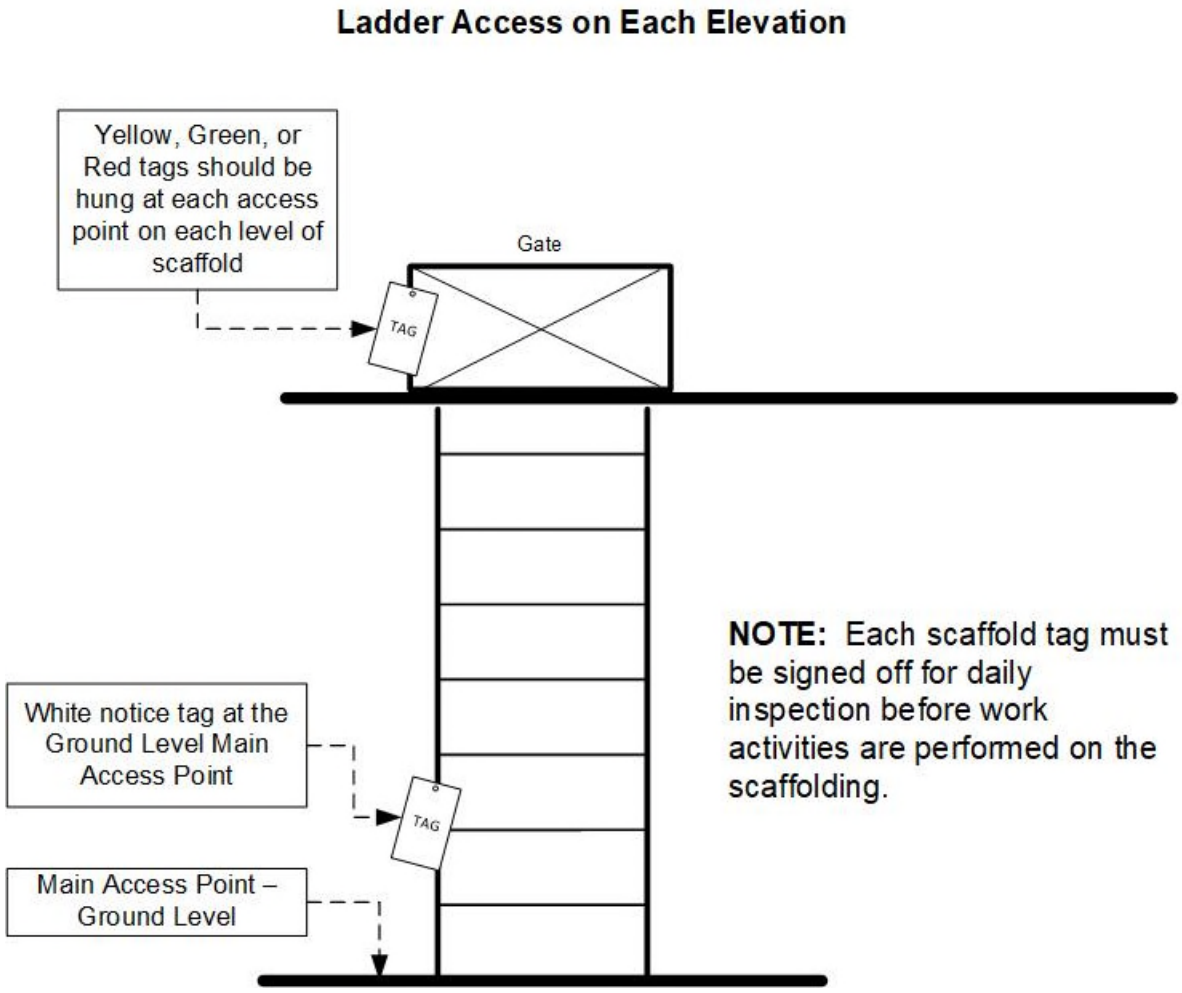


Figure E-2 Guidelines for Tagging Scaffolds

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APPENDIX F
Safety Requirements for Scaffolding

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GENERAL

1. Scaffolds shall be designed by a Qualified Person and shall be constructed and loaded IAW that design (29 CFR 1926.451[a][6]). Appendix A of 29 CFR 1926, Subpart L, contains examples of criteria that will enable an employer to comply with this requirement
2. Scaffolds shall be erected, moved, dismantled, or altered only under the supervision and direction of a Competent Person qualified in Scaffold erection, moving, dismantling, or alteration. Only experienced and trained employees selected for such work by the Competent Person (29 CFR 1926.451[f][7]) shall perform such activities
3. Scaffolds and Scaffold components shall be inspected for visible defects by a Competent Person before each work shift, and after any occurrence that could affect a Scaffold's structural integrity (1926.451[f][3])
4. Each Scaffold and Scaffold component shall be capable of supporting, without failure, its own weight and at least our times the maximum intended load applied or transmitted to it (29 CFR 1926.451[a][1])
5. Supported Scaffolds with a height-to-base width (including outrigger supports, if used) ratio of more than 4:1 shall be restrained from tipping by guying, tying, or bracing, or equivalent means (29 CFR 1926.451[c][1])

NOTE: *Cal OSHA limits this ratio to 3:1*

6. Guys, ties, and braces shall be installed according to the Scaffold manufacturer's recommendations or at the closest horizontal member to the 4:1 height and be repeated vertically at locations of horizontal members every 20 ft. (6.1 m) or less thereafter for Scaffolds 3 ft. (0.91 m) wide or less, and every 26 ft. (7.9 m) or less thereafter for Scaffolds greater than 3 ft. (0.91 m) wide. The top guy, tie, or brace of completed Scaffolds shall be no further than the 4:1 height from the top. Such guys, ties, and braces shall be installed at each end of the Scaffold and at horizontal intervals not to exceed 30 ft. (9.1 m) measured from one end (not both) toward the other (29 CFR 1926.451[c][1][ii])
7. Supported Scaffold poles, legs, posts, frames, and uprights shall bear on base plates and mudsills or other adequate firm foundation (29 CFR 1926.451[c][2])

NOTE: *All Scaffold components are to maintain a 1" clearance from all permanent plant equipment, excluding structural beams and columns. If a one-inch clearance is not possible then the clearance may be reduced to "Not Touching" as long as the Scaffold is secured to prevent movement and is prevented from making contact with permanent plant equipment.*

8. Footings shall be level, sound, rigid, and capable of supporting the loaded Scaffold without settling or displacement (29 CFR 1926.451[c][2][i])
9. Unstable objects shall not be used to support Scaffolds or platform units (29 CFR 1926.451[c][2][ii]) (e.g., brinks, concrete blocks, or other unstable materials)

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APPENDIX F
Safety Requirements for Scaffolding

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10. All Scaffold access ladders shall extend at least 36 in. above the platform, or an equivalent safe access (e.g., grab bars or rails). Ladders shall be positioned so the bottom rung is not more than 12 in. above the Scaffold support level

11. Suspended and Unsuspended Access Ladders

    A. Access ladders that are suspended off the ground elevation must have the following:

    - Two ladder brackets are required on starter ladder section directly below the rung for proper support.
    - One ladder bracket is required directly below the rung near the top of each intermediate ladder section above the starter ladder.
    - One bracket is required directly ABOVE a rung near the top of the TOP ladder section applying downward pressure to prevent displacement.

    B. Access ladders NOT suspended off the ground elevation must have the following:

    - Ladder must be resting on Sill or FIRM foundation.
    - Two ladder brackets are required on the starter ladder. (Placement should be between the top two ladder rungs and between the bottom two ladder rungs when feasible)
    - One ladder bracket is required directly below the rung near the top of each intermediate ladder section above the starter ladder.
    - Once bracket is required directly ABOVE a rung near the top of the TOP ladder section applying downward pressure to prevent displacement.

NOTE: *See Appendix H for detailed diagram*

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Safety Requirements for Scaffolding
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12. Accessing Scaffold Ladders

REQUIREMENTS FOR ACCESSING SCAFFOLD LADDERS				
Item	Location	Action 1	Action 2	Comments
1	Ground Level	Verify White Notice Tag inspected for current shift	Ascend scaffold ladder	If White Notice Tag missing an inspection signature for current shift, **STOP AND CONTACT** competent scaffold foreman for an inspection prior to accessing scaffold/scaffold ladder
2	1st Level Scaffold Platform	Verify Green or Yellow Tag inspected for current shift	Ascend scaffold ladder	If there are multiple platforms above, the access ladder on this level is verified with the platform on this level for the current shift. If Green or Yellow tags missing an inspection signature for current shift, **STOP AND CONTACT** competent scaffold foreman for an inspection prior to accessing scaffold/scaffold ladder
3	All levels	Verify Green, Yellow, or White Notice tags inspected for current shift	Ascend scaffold ladder	If Green, Yellow, or White Notice tags missing an inspection signature for current shift, **STOP AND CONTACT** competent scaffold foreman for an inspection prior to accessing scaffold/scaffold ladder

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REQUIREMENTS FOR ACCESSING SCAFFOLD LADDERS				
Item	Location	Action 1	Action 2	Comments
4	Hard barricade with scaffold ladder installed for egress into/onto other surface	A. Verify White Notice Tag inspected for current shift B. Verify Safety Hazards or Requirements posted at access point prior to entry	Ascend scaffold ladder	A. If White Notice Tag missing an inspection signature for current shift, **STOP AND CONTACT** competent scaffold foreman for an inspection prior to accessing scaffold/scaffold ladder B. If Safety Hazards or Requirements are **NOT** posted, **STOP AND CONTACT** ES&H for further information on Safety Hazards or Requirements.

13. Where possible, gates should be used integral to the Scaffold guardrail system. Gates that are not integral to the guardrail system may be needed due to permanent plant obstructions (e.g., steel beam or pipe at a gate location causing a tripping hazard). Alternatively, a Yellow Scaffold tag may be used when a gate integral to the guardrail system is unable to be installed due to obstruction

14. When hook-on and attachable ladders are used on a supported Scaffold more than 35 ft. (10.7 m) high, they shall have rest platforms at 35 ft. (10.7 m) maximum vertical intervals (29 CFR 1926.451[e][2][iii])

15. All Scaffold decks 14 foot. (4.3 m) in height or greater shall be equipped with a self-retracting lanyard at the top of the ladder unless there is a rest platform below the 14-foot elevation or another work deck to exit off the ladder. The self-retracting lanyard connector shall be affixed with a tagline to allow for the lanyard to stay retracted when not in use (2HO-E0S0-00003-001, *BESH Health & Safety Fall Prevention and Protection Program Guideline*)

    The clearance between Scaffolds and power lines shall be as follows: Scaffolds shall not be erected, used, dismantled, altered, or moved such that they are or any conductive material handled on them might come closer to exposed and energized power lines than as follows: Insulated Lines – Less than 300V – 3 ft. (0.9 m); 300V to 50 kV – 10 ft. (3.1 m); More than 50 kV - 10 ft. (3.1 m) plus 0.4 in. (1.0 cm) for each 1 kV over 50 kV. Uninsulated Lines – Less than 50 kV – 10 ft. (3.1 m); More than 50 kV – 10 ft. (3.1 m) plus 0.4 in. (1.0 cm) for each 1 kV over 50kV (29 CFR 1926.451[f][6])

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Safety Requirements for Scaffolding

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NOTE: *The term "exposed power lines" is defined as electrical power lines which are accessible to employees and which are not shielded from contact. Such lines do not include extension cords or power tool cords. (29 CFR 1926.450[b], Definitions).*

16. Employees shall be prohibited from working on Scaffolds covered with snow, ice, or other slippery material except as necessary for removal of such materials (29 CFR 1926.451[f][8]), it is the Scaffold User's responsibility to inspect before use
17. Work on or from Scaffolds is prohibited during storms or high winds unless a Competent Person has determined it is safe for employees to be on the Scaffold and those employees are protected by a Personal Fall Arrest System or wind screens. Windscreens shall not be used unless the Scaffold is secured against anticipated wind forces imposed (29 CFR 1926.451[f][12])
18. Guardrails, midrails, and toe boards must be placed on all open sides of platforms (excluding swing gate) more than 6 ft. (1.83 m) above ground or floor. Commodities such as walls, large piping, cable trays, duct work, etc. for example can be substituted for the guardrail system provided they meet the criteria below for the toprail and midrail. The toprail must be placed 38-45 in. (96-114 cm) high (with minimum 200 pound [91Kg] toprail capacity) with a midrail placed halfway between the Scaffold planking and the toprail. Toe boards must be at least 3.5 in. (9 cm) high. Four-inch (10 cm) toe boards are preferred. Reference 29 CFR 1926.451 (4)(iii) and (iv), (v) for midrail applications
19. All guardrails and toe boards shall be securely fastened. There shall be no more than a 1/4 in. (.635 cm) space between the toe board and Scaffold deck. Toe boards shall be built from materials equivalent in strength to nominal 1 in. x 4 in. (2.54 cm x 10.16 cm) construction grade lumber, which meets 29 CFR 1926, Subpart M, *Fall Protection*, requirements
20. Scaffolds 6ft and above shall be provided synthetic netting, or equivalent, between toe board and the toprail, where feasible. This netting must be attached in such a way as to be secure and strong enough to hold expected load requirements. Barricades may be substituted if necessary
21. Platforms shall be tightly planked for the full width of the Scaffold and they should extend over the end supports between 6 in. (15.24 cm) and 12 in. (30.5 cm). A cleat or equivalent shall be used on the bottom edges of the plank to prevent slippage. All wood Scaffold planking shall be a minimum of nominal 2 in. x 10 in. and certified and stamped as Scaffold grade lumber. Other Scaffold planking shall have proof of certification as an equivalent (e.g., metal, laminated planks)
22. Scaffold wood planks shall not be notched and shall maintain the full width of the planking
23. Scaffolds shall not block or prevent access to fire protection and/or safety equipment
24. Personnel shall be prohibited from using any untagged Scaffold
25. Scaffold erectors shall comply with fall protection requirements as outlined in BESH Core Process CP 212, *Fall Prevention/Protection*, while erecting Scaffolding

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Safety Requirements for Scaffolding

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26. Adjusting screws shall be installed only between the baseplate and the vertical frame section. The use of adjusting screws with casters is prohibited. Extending adjusting screws beyond 12 in. (30.5 cm) is prohibited, unless built for the Scaffold system by the manufacturer
27. Scaffolds should be properly braced with cross braces and/or diagonal braces to laterally secure vertical members. The length of cross braces should automatically square and align vertical members so the erected Scaffolds are always plumb, square, and rigid
28. Scaffold components fabricated by different manufacturers shall not be intermixed unless written permission is obtained from both manufacturers
29. Scaffolds shall be cleaned off upon completion of daily work by Craft personnel using the Scaffold
30. A toe board should never be used to aid access to a working platform; grab bars should be used instead
31. Tools or materials shall be removed or secured so they cannot fall or roll off when a Scaffold is moved
32. The responsible supervisor using the Scaffold must ensure tools, materials, and debris do not accumulate in quantities that create a falling objects or tripping hazard
33. Scaffolds shall be checked before each work shift for quality/safety and tags signed/updated accordingly. Scaffold inspections are good for 12-hour shifts.
34. Guardrails shall be surfaced to prevent injury to an employee from punctures or lacerations and to prevent snagging of clothing
35. When dismantling Scaffold structures, materials shall not be thrown down. The material should be lowered to prevent damage to Scaffold materials and danger to the surrounding area or personnel
36. Access Scaffolds shall not be used to store heavy materials

SUSPENSION SCAFFOLDS

1. Each suspension rope, including connecting hardware, used on non-adjustable Suspension Scaffolds shall be capable of supporting, without failure, at least six times the maximum intended load applied or transmitted to that rope (29 CFR 1926.451[a][3])

   Each suspension rope, including connecting hardware, used on adjustable Suspension Scaffolds shall be capable of supporting, without failure, at least six times the maximum intended load applied or transmitted to that rope with the Scaffold operating at either the rated load of the hoist, or two (minimum) times the stall load of the hoist, whichever is greater (29 CFR 1926.451[a][4])
2. Ropes shall be inspected for defects by a Competent Person prior to each work shift and after every occurrence that could affect a rope's integrity. Suspension ropes shall be shielded from heat-producing processes

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Safety Requirements for Scaffolding

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To reduce the possibility of welding current arcing through the suspension wire rope when performing welding from suspended Scaffolds, the following precautions shall be taken, as applicable: An insulated thimble shall be used to attach each suspension rope to its hanging support. Excess suspension wire rope and any additional independent lines from grounding shall be insulated (29 CFR 1926.451[f][17][i]); the suspension wire rope shall be covered with insulating material extending at least 4 ft. (1.2 m) above the hoist. If there is a tail line below the hoist, it shall be insulated to prevent contact with the platform. The portion of the tail line that hangs free below the Scaffold shall be guided or retained, or both, so it does not become grounded (29 CFR 1926.451[f][17][ii]); each hoist shall be covered with insulated protective covers (29 CFR 1926.451[f][17][iii]); in addition to a work lead attachment required by the welding process, a grounding conductor shall be connected from the Scaffold to the structure. The size of this conductor shall be at least the size of the welding process work lead, and this conductor shall not be in series with the welding process or the work piece (29 CFR 1926.451[f][17][iv]); If the Scaffold grounding lead is disconnected at any time, the welding machine shall be shut off and an active welding rod or uninsulated welding lead shall not be allowed to contact the Scaffold or its suspension system (29 CFR 1926.451[f][17][v & vi])

3. Each employee on a single-point or two-point adjustable Suspension Scaffold shall be protected by both a Personal Fall Arrest System and guardrail system (29 CFR 1926.451[g][1][ii])

4. Personnel using Suspension Scaffolds may require additional training

FABRICATED FRAME SCAFFOLDS

Fabricated Frame Scaffolds over 125 ft. (38.0 m) in height above their baseplates shall be designed by a registered professional engineer, and shall be constructed and loaded IAW such design (29 CFR 1926.452[c][6]).

TUBE AND COUPLER SCAFFOLDS

1. Tube and Coupler Scaffolds over 125 ft. (38.0 m) in height above their baseplates shall be designed by a registered professional engineer, and shall be constructed and loaded IAW such design (29 CFR 1926.452[b][10])

2. A light duty Tube and Coupler Scaffold shall have all posts, bearers, runners, and bracing of nominal 2 in. (5.1 cm) outer diameter (O.D.) steel tube, aluminum tube, or pipe. The posts shall be spaced no more than 4 ft. (1.22 m) apart by 10 ft. (3 m)

   along the length of the Scaffold. The runners shall be spread no more than 6 ft., 6 in. (1.98 m) vertically. Other structural metals, when used, must be designed to carry an equivalent load. No dissimilar metals shall be in contact with each other. A medium-duty Tube and Coupler Scaffold shall have all posts, runners, and bracing of nominal 2 in. (5.1 cm) O.D. steel tube, aluminum tube, or pipe. Posts spaced not more than 6 ft. (1.83 m) apart by 8 ft. (2.4 m) along the length of the Scaffold shall have bearers of nominal 2.5 in. (6.35 cm) O.D. steel tubing. Posts spaced not more than 4 ft. (1.22 m) apart by 8 ft. (2.4 m) along the length of the Scaffold shall have bearers of

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Safety Requirements for Scaffolding

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nominal 2 in. (5.1 cm) O.D. steel tubing. The runners shall be spread no more than 6 ft., 6 in. (1.98 m) vertically. Other structural metals, when used, must be designed to carry an equivalent load. No dissimilar metals shall be in contact with each other

A heavy-duty Tube and Coupler Scaffold shall have all posts, runners, and bracing of nominal 2-in. (5.1 cm) O.D. steel tube, aluminum tube, or pipe, with the posts spaced not more than 6 ft. (1.83 m) by 6 ft. (1.83 m). Bearers shall be nominal 2.5 in. (6.35 cm) O.D. steel tubing, aluminum tube, or pipe. The runners shall be spaced no more than 6 ft., 6 in. (1.98 m) vertically. Other structural metals, when used, must be designed to carry an equivalent load. No dissimilar metals shall be in contact with each other

3. Posts shall be accurately spaced, erected on suitable bases, and maintained plumb
4. Cross bracing shall be installed across the width of the Scaffold at least every third set of posts horizontally and every fourth runner vertically. Such bracing shall extend diagonally from the inner and outer runners upward to the next outer and inner runners
5. Longitudinal diagonal bracing on the inner and outer rows of poles shall be installed at approximately a 45-degree angle from near the base node point of the first outer post upward to the top working platform node point of the Scaffold. Where the longitudinal length of the Scaffold permits, such bracing shall be duplicated beginning at every fifth post. In a similar manner, longitudinal diagonal bracing shall also be installed from the last post extending back and upward toward the first post. Where conditions preclude the attachment of this bracing to the posts, it may be attached to the runners

MOBILE (ROLLING) SCAFFOLDS

1. Scaffolds shall be braced by cross, horizontal, or diagonal braces, or combination thereof, to prevent racking or collapse of the Scaffold and to secure vertical members together laterally so as to automatically square and align vertical members. Scaffolds shall be plump, level, and squared, and should rest on a level surface. All brace connections shall be secured (29 CFR 1926.452[w][1])
2. Scaffold casters and wheels shall be locked with positive wheel and/or wheel and swivel locks, or equivalent means, to prevent movement of the Scaffold while the Scaffold is used in a stationary manner (29 CFR 1926.452[w][2]). Where feasible, Mobile Scaffolds should be tied off
3. Manual force used to move the Scaffold shall be applied as close to the base as practicable, but no more than 5 ft. (1.5 m) above the supporting surface (29 CFR 1926.452[w][3])
4. The height-to-base width ratio of the Scaffold during movement is 2:1 or less, unless the Scaffold is designed and constructed to meet or exceed nationally recognized stability test requirements (29 CFR 1926.452[w][6][ii])

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5. A ladder or stairway shall be provided for proper access and exit and shall be affixed or built into the Scaffold and so located that when in use it will not have a tendency to tip the Scaffold
6. Scaffolds in use by any persons shall rest upon a suitable footing and shall stand plumb. The casters or wheels shall be locked to prevent any movement
7. Employees shall not be allowed on Scaffolds while they are being moved from one location to another
8. Mobile scaffold(s) shall be relocated from one location to another under the supervision and direction of a scaffold competent person(s). Casters must be placed in the locked position prior to accessing mobile scaffold(s) once relocated and a clear obstruction free access can be established

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APPENDIX G
Scaffold Tagging Requirements

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Green tag must be attached to all Scaffold platform level(s) at the access points that have been erected to meet all regulatory requirements and UPF requirements and are safe for all personnel.



Yellow tag must be attached to all Scaffold platform level(s) that are structurally sound (at the access points), but an accessory such as a handrail cannot be installed because of the location of the Scaffold, or the nature of the work that is to be performed. Fall protection is required on all Yellow-tagged Scaffolds.



Red tag shall be affixed to Scaffold platform level(s) at the access points which are partially erected/dismantled, or which are defective or damaged in any way. Only authorized employees assigned to Scaffold erection are allowed to climb the Scaffold. Authorized employees are required to wear and use all required personal protective equipment (e.g., Personal Fall Arrest Systems).



White tag must be attached at the main floor-level access point of all designated Scaffold accesses to identify specific level(s) conditions for each Scaffold.

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Blue housekeeping tags to be placed on main level access point of Scaffold with poor housekeeping or missing/damaged debris netting. Green or Yellow tag will only be signed off for the Scaffold user to remediate the issue.

Entry	Description
Green, Yellow and Red Tags Front	
Date	Enter the date and shift (if applicable) when the erection or modification of the Scaffold was completed (e.g., PM 8/3/04).
Scaffold Erection Foreman	Enter the name of the Responsible Scaffold Erection Foreman, who oversaw the erection.
Scaffold No.	Enter the unique Scaffold Number. This number shall be the same as the number on the Scaffold Request Form. This does not apply to Red Tags.
Green and Yellow Tags Back	
Date	Enter the date and shift (if applicable) when a Scaffold Competent Person inspected the Scaffold.
Name	Enter the name of the Scaffold Competent Person who inspected the Scaffold.
White Tag Front	
Scaffold No.	Enter the unique Scaffold Number.
Deck Status	For each deck, enter Green, Red or Yellow.
White Tag Back	
Date	Enter the date and shift (if applicable) when a Scaffold Competent Person inspected the Scaffold.
Inspection	Enter details of the inspection.
Name	Enter the name of the Scaffold Competent Person who inspected the Scaffold.
Blue Tag Front	
Date Installed	Enter the date the tag was hung.
Contact	Enter the name of the person who hung the tag.

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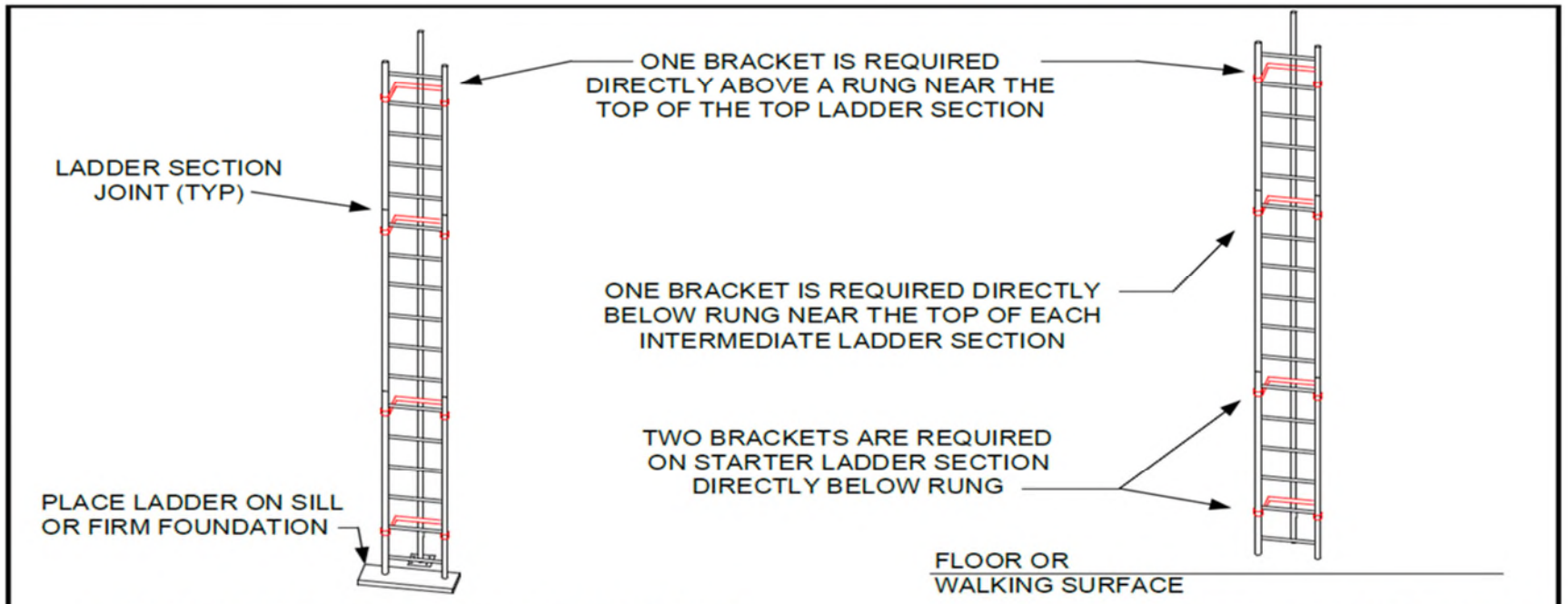
APPENDIX H
Clamped Scaffold Ladder Guide

THE NATION'S URANIUM PROCESSING FACILITY

UPF FIELD SKETCH FORM

Work Package No.: CWP-VPUBEDK100-D01

Startup System No.: N/A **Task No.:** N/A



REV	DATE	DESCRIPTION	BY	CHK'D	APPR
1	10-07-2025	CLARIFY GROUND BEARING	TLP	KW	AJH
0	9-25-2025	LADDER CLAMP LOCATIONS	---	---	---

URANIUM PROCESSING FACILITY
DOCUMENT TITLE: CLAMPED SCAFFOLD LADDER GUIDE
DRAWING NO. FSK-CM-801768-A300
REV. 1
SCALE: N/A
SHEET NO. 1 OF 1

CFN-1015 (08-15-2022)
Y17-95-64-817
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