

3 POWERED INDUSTRIAL TRUCKS

4
5 NIST S 7101.74

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9

10 1. PURPOSE

11 The purpose of this program is to define requirements and associated roles and responsibilities
12 for protecting employees and covered associates from the hazards presented by operating
13 powered industrial trucks (PITs; see Section 7, **DEFINITIONS**).
14
15

16 2. BACKGROUND

17 NIST must meet or exceed the requirements established by OSHA in 29 Code of Federal
18 Regulations (CFR) 1910.178, *Powered Industrial Trucks*. Implementation of this suborder
19 through the requirements in Section 6 and the roles and responsibilities in Section 9 meets those
20 requirements.
21
22

23 3. APPLICABILITY

24 a. The provisions of this suborder apply to all NIST employees and covered associates whose
25 work activities involve operating PITs.
26

27 b. This suborder does not apply to the following:
28

29 (1) Compressed air or nonflammable compressed gas-operated industrial trucks;
30

31 (2) Farm vehicles; or
32

33 (3) Vehicles intended primarily for earth moving or over-the-road hauling.
34
35

36 4. REFERENCES

37 a. 29 CFR 1910.178, [*Powered Industrial Trucks*](#)

¹ For revision history, see Appendix A.

- 38 b. 29 CFR 1910.1000, Table Z-1, [Limits for Air Contaminants](#)
39
40 c. 29 CFR 1910.399, [Definitions Applicable to this Subpart](#)
41
42 d. ANSI B56.1-1969, *American National Standard for Powered Industrial Trucks, Part II*
43
44 e. ANSI/NFPA 30-2015, *Flammable and Combustible Liquids Code*
45
46 f. ANSI/NFPA 505-2013, *Fire Safety Standard for Powered Industrial Trucks Including Type*
47 *Designations, Areas of Use, Conversions, Maintenance, and Operations*
48
49 g. ANSI/NFPA 58-2017, *Liquefied Petroleum Gas Code*
50
51

5. APPLICABLE NIST OCCUPATIONAL SAFETY AND HEALTH SUBORDERS

The NIST OSH Suborders listed below are incorporated by reference as standard operating procedures for this suborder.

- 55
56 a. NIST S 7101.59: [Chemical Hazard Communication](#)
57
58 b. NIST S 7101.60: [Chemical Management](#)
59
60 c. NIST S 7101.61: [Compressed Gas Safety](#)
61
62 d. NIST S 7101.02: [Employee Reporting of Unsafe or Unhealthful Working Conditions](#)
63
64 e. NIST S 7101.22: [Hazard Signage](#)
65
66 f. NIST S 7101.55: [Hearing Protection](#)
67
68 g. NIST S 7101.24: [Incident Reporting and Investigation](#)
69
70 h. NIST S 7101.21: [Personal Protective Equipment](#)
71
72 i. NIST S 7101.04: [Safety and Health Requirements for Minors](#)
73
74 j. NIST S 7101.23: [Safety Education and Training](#)
75
76 k. NIST S 7101.01: [Safety Rights and Responsibilities](#)
77

78 1. NIST S 7101.03: Stop Work

79

80 m. NIST S 7101.20: Work and Worker Authorization Based on Hazard Reviews

81

82

83 6. REQUIREMENTS

84 a. Design Requirements

85

86 (1) Apart from the exception in Section 6.a(2), PITs used by NIST employees and covered
87 associates shall:

88

89 (a) Meet the design and construction requirements as established in American National
90 Standard for Powered Industrial Trucks, Part II, ANSI B56.1-1969; and

91

92 (b) Be approved by a national recognized testing laboratory (e.g., Underwriters
93 Laboratories);

94

95 i. A legible label, plate, decal, or some other identifying mark indicating
96 approval by a national recognized testing laboratory shall be permanently
97 affixed on the PIT.

98

99 (2) If a PIT cannot meet the requirements of Section 6.a(1), it may be deemed acceptable for
100 use after an OSHE review to ensure it is safe to operate given the hazards associated with
101 the intended tasks.

102

103 (3) If a PIT has been subject to modifications or additions affecting its capacity or potentially
104 affecting its safety, the PIT shall not be used by NIST employees or covered associates
105 without documentation of the manufacturer's approval of the modifications or additions.

106

107 (4) If a NIST-owned PIT is to be subject to modifications or additions affecting its capacity
108 or potentially affecting its safety, the modifications or additions shall not be made
109 without the manufacturer's approval of the modifications or additions and documentation
110 thereof.

111

112 (a) Additional counterweighting of fork trucks shall not be done unless approved by the
113 truck manufacturer.

114

115 (b) Subsequent to any modification or addition, and prior to first use, the following shall
116 be modified according to the manufacturer's requirements:

117

- 118 i. Plates, tags, or decals indicating capacity, operation, and/or maintenance
119 instructions;
120
121 ii. Operation manuals; and
122
123 iii. Standard operating procedures.
124
125 (5) If a PIT is equipped with front-end attachments *other* than factory-installed attachments,
126 the PIT shall be used by NIST employees and associates only if the PIT has been marked
127 by the manufacturer to identify:
128
129 (a) The attachments;
130
131 (b) The approximate weight of the truck and attachment combination; and
132
133 (c) The allowable elevation of a maximum load laterally centered.
134
135 (6) All nameplates and markings on NIST-owned PITs and front-end attachments shall be
136 maintained in a legible condition.
137
138 (7) If the nameplates and markings on PITs and front-end attachments are not legible, the
139 PITs and front-end attachments shall not be used by NIST employees or covered
140 associates.
141
142 (8) Safety Guards
143
144 (a) When appropriate, an overhead guard shall be used as protection against falling
145 objects.²
146
147 i. High lift rider trucks shall be fitted with an overhead guard manufactured in
148 accordance with the American National Standard for Powered Industrial
149 Trucks, Part II, ANSI B56.1-1969, unless operating conditions do not permit.
150
151 (b) A load backrest extension shall be used whenever necessary to minimize the
152 possibility of the load or part of it from falling rearward.
153

² An overhead guard is intended to offer protection from the impact of small packages, boxes, bagged material, *etc.*, representative of the job application, but not to withstand the impact of a falling capacity load.

154 i. If the type of load presents a hazard, the user shall equip fork trucks with a
155 vertical load backrest extension manufactured in accordance with American
156 National Standard for Powered Industrial Trucks, Part II, ANSI B56.1-1969.

157

158 b. PIT Inspections

159

160 (1) A PIT shall be inspected prior to each use.

161

162 (a) Where multiple PIT operators are using the same PIT during a single shift, the OU
163 may use the initial inspection for all operators.

164

165 (b) Where PIT usage spans multiple shifts, the PIT shall be inspected before use during
166 the next shift.

167

168 (c) A manufacturer-supplied inspection form (or equivalent) shall be used to document
169 inspections.

170

171 (d) If the inspection shows any condition adversely affecting the safety of the PIT, it shall
172 be tagged out of service and not used.

173

174 i. The condition shall be immediately reported to the individual responsible for
175 the care and maintenance of the PIT.

176

177 (2) If at any time a powered industrial truck is found to need repair, be defective, or in any
178 way unsafe:

179

180 (a) The truck shall be taken out of service until it has been restored to safe operating
181 condition; and

182

183 (b) All PIT operators of this PIT shall be informed of the truck's unavailability.

184

185 c. Hazardous Atmospheres

186

187 (1) Prior to using a PIT in a hazardous atmosphere (see Section 7, **DEFINITIONS**), a hazard
188 review shall be completed specifically addressing the use of a PIT in the specific
189 atmosphere and to evaluate the potential for carbon monoxide generation.

190

191

192

193

- 194 d. Working Surfaces
195
196 (1) Working surfaces (*e.g.*, floors, truck/trailer beds) shall be inspected to ensure the
197 operating surface can withstand the intended load (combined weight of the PIT and load).
198
- 199 e. Operation of PITs
200
201 (1) Operators of PITs shall:
202
203 (a) Wear seat belts where provided by the manufacturer;
204
205 (b) Restrict others from riding on PITs;
206
207 (c) Refrain from stunt driving and horseplay while operating;
208
209 (d) Refrain from driving a PIT up to anyone standing in front of a fixed object;
210
211 (e) Refrain from, and instruct others in the work area to refrain from, standing or passing
212 under the elevated portion of any PIT whether loaded or empty; and
213
214 (f) Refrain from placing arms and/or legs between the uprights of the mast or outside the
215 running lines of the PIT.
216
- 217 (2) When traveling:
218
219 (a) All traffic regulations shall be observed;
220
221 (b) A safe distance shall be maintained (approximately three PIT lengths) between the
222 PIT and any other vehicle in front of it;
223
224 (c) Speeds shall be such that the PIT can be brought to a stop in a safe manner;
225
226 (d) Speeds shall be reduced for:
227
228 i. Wet and slippery surfaces; and
229
230 ii. Turns.
231
232 (e) Passing of other vehicles shall only be done when vision of the area in front of the
233 vehicle is not obstructed;

- 234 (f) Large loose objects on the roadway surface shall be avoided; and
235
236 (g) The load and load engaging means shall be
237
238 i. Tilted back; and
239
240 ii. Raised only as far as necessary to clear the road surface.
241
- 242 (3) When operating with obstructed views, the operator shall:
243
244 (a) Travel with the load trailing if the load being carried obstructs forward view; and
245
246 (b) Slow down and sound the horn at locations where vision is obstructed.
247
- 248 (4) When traveling parallel near elevated surfaces (*e.g.*, ramp, dock, platform, truck bed,
249 *etc.*), a minimum of one tire width shall be maintained between the PIT and the free edge
250 of the elevated surface.
251
- 252 (5) When operating on graded surfaces:
253
254 (a) Graded surfaces shall be ascended and descended slowly; and
255
256 (b) Loaded PITs shall be driven with the load upgrade when the ascending or descending
257 grade is more than 10 percent.
258
- 259 (6) When operating near low overhead features (*e.g.*, headers of doorways, lights, pipes,
260 sprinkler system, *etc.*), sufficient headroom shall be ensured before driving beneath such
261 features.
262
- 263 (7) When encountering dock board or bridge plates, operators shall ensure dock boards and
264 bridge plates are:
265
266 (a) Secured before they are driven over;
267
268 (b) Rated to handle the capacity of the PIT and load; and
269
270 (c) Driven over carefully and slowly.
271
- 272 (8) When boarding highway trucks:
273

- 274 (a) Brakes of the highway truck shall be set;
275
276 (b) Rear wheels of the highway truck shall be chocked; and
277
278 (c) If the highway truck trailer is not coupled to a tractor during loading or unloading,
279 fixed jacks should be used to support the trailer and prevent upending.
280
281 (9) Where general lighting is less than 2 lumens per square foot, auxiliary directional lighting
282 shall be provided on the PIT.
283
284 (10) When operating in elevators:
285
286 (a) Do not drive trucks onto any elevator unless specifically authorized to do so.
287
288 (b) Do not exceed the capacity of the elevator. Verify the combined weight of the
289 powered industrial truck including the battery and the load does not exceed the
290 maximum floor capacity of the elevator before entering.
291
292 (c) Elevator shall be approached slowly;
293
294 (d) Elevator shall be entered squarely after the elevator car is properly leveled; and
295
296 (e) When a PIT is inside an elevator:
297
298 i. The load engaging means shall be fully lowered;
299
300 ii. The controls shall be neutralized;
301
302 iii. The power shall be shut off; and
303
304 iv. The brakes shall be set.
305
306 f. Unattended PITs
307
308 (1) A PIT shall be considered unattended when:
309
310 (a) The operator is 25 feet or more away from the PIT; or
311
312 (b) The operator leaves the PIT and it is not in view.
313

- 314 (2) When a PIT is left unattended:
315
316 (a) The PIT shall not block:
317
318 i. Fire aisles;
319
320 ii. Access to stairways; and
321
322 iii. Access to fire equipment;
323
324 (b) The load engaging means shall be fully lowered;
325
326 (c) The controls shall be neutralized;
327
328 (d) The power shall be shut off;
329
330 (e) The brakes shall be set; and
331
332 (f) If parked on an incline, the wheels shall be blocked.
333
334 g. Loading/Unloading
335
336 (1) Only loads within the rated capacity of the PIT shall be handled.
337
338 (2) When engaging a load, forks shall be:
339
340 (a) Spread as far apart as possible with respect to the contact points of the load;
341
342 (b) Tilted forward, when appropriate;
343
344 (c) Placed under the load as far as possible; and
345
346 (d) Tilted backward with care to engage load.
347
348 (3) Loads shall be stable prior to transport.
349
350 (a) Caution shall be exercised when handling off-center loads which cannot be centered.
351
352 (b) Long or high (including multiple-tiered) loads shall be adjusted to stabilize the load.
353

- 354 (4) When depositing a load, care shall be taken when tilting the forks forward.
355
- 356 (5) When loading/unloading high-tier loads:
357
- 358 (a) Only enough backward tilt to stabilize the load shall be used for elevated loads; and
359
- 360 (b) An elevated load shall not be tilted forward except when the load is in a deposit
361 position over a rack or stack.
362
- 363 h. Fueling of PITs
364
- 365 (1) PITs shall be used by NIST employees and covered associates only when the storage and
366 handling of liquid fuels such as gasoline and diesel fuel are required to be in accordance
367 with ANSI/NFPA 505-2013 and ANSI/NFPA 30-2015.
368
- 369 (2) PITs shall be used by NIST employees and covered associates only when the storage and
370 handling of liquefied petroleum gas fuel are required to be in accordance with
371 ANSI/NFPA 505-2013 and ANSI/NFPA 58-2017.
372
- 373 (3) Fuel tanks shall not be filled while the engine is running. Spillage shall be avoided.
374
- 375 (4) Spillage of oil or fuel shall be cleaned up per NIST S 7101.60, [Chemical Management](#) or
376 equivalent, and the fuel tank cap replaced before restarting the engine.
377
- 378 (5) Open flames shall not be used for checking gasoline level in fuel tanks.
379
- 380 i. Changing and Charging Batteries for Electric Trucks
381
- 382 (1) PITs shall be used by NIST employees and covered associates only if a location has been
383 specifically designated as a PIT battery charging installation and the battery charging
384 installation has the following features:
385
- 386 (a) A means to ensure fire protection [contact the NIST Office of Safety, Health, and
387 Environment (OSHE) at ext. 5375, option 3 on a case-by-case basis];
388
- 389 (b) Prohibition on smoking in and around the installation;
390
- 391 (c) Restrictions on open flames, sparks, or electric arcs in and around the installation;
392
- 393 (d) A means to ensure physical protection (from damage) of the charging apparatus;

- 394 (e) A conveyor, overhead hoist, or equivalent material handling equipment;
395
396 (f) A carboy tilter or siphon for handling electrolyte;
397
398 (g) A means to flush and neutralize spilled electrolyte; and
399
400 (h) A means to ensure adequate ventilation for dispersal of fumes from gassing batteries.
401

402 (2) Watering of batteries shall be conducted per the PIT manufacturer's recommendations.
403

404 (3) Open flames shall not be used for checking electrolyte level in storage batteries.
405

406 (4) Care shall be taken to assure that vent caps are functioning.
407

408 (5) The battery (or compartment) cover(s) shall be open to dissipate heat.
409

410 (6) Tools and other metallic objects shall be kept away from the top of uncovered batteries.
411

412 (7) PITs shall be properly positioned and brake applied prior to batteries being changed or
413 charged.
414

415 (8) Reinstalled batteries shall be properly positioned and secured in the PIT.
416

417 j. Maintenance of Industrial Trucks
418

419 (1) PITs shall be used by NIST employees and covered associates only if all PIT repairs have
420 been made by either:

421 (a) A manufacturer's service technician representative; or
422

423 (b) An individual who has equivalent training in repairing PITs.
424
425

426 (2) No repairs shall be made in Class I, II, and III locations (see Section 7, **DEFINITIONS**).
427

428 (3) Repairs to the fuel and ignition systems of PITs which involve fire hazards shall be
429 conducted only in locations designated for such repairs.
430

431 (4) PITs in need of repairs to the electrical system shall have the battery disconnected prior
432 to such repairs.
433

- 434 (5) All parts of any such PIT requiring replacement shall be replaced only by parts equivalent
435 as to safety with those used in the original design.
436
- 437 (6) PITs shall not be altered so that the relative positions of the various parts are different
438 from what they were when originally received from the manufacturer.
439
- 440 (7) PITs shall not be altered so that the relative positions of the various parts are different
441 from what they were when originally received from the manufacturer, nor shall they be
442 altered either by the addition of extra parts not provided by the manufacturer or by the
443 elimination of any parts.
444
- 445 (8) Water mufflers shall be filled daily or as frequently as is necessary to prevent depletion
446 of the supply of water below 75 percent of the filled capacity.
447
- 448 (a) Vehicles with mufflers having screens or other parts that may become clogged shall
449 not be operated while such screens or parts are clogged.
450
- 451 (b) Any vehicle that emits hazardous sparks or flames from the exhaust system shall
452 immediately be removed from service, and not returned to service until the cause for
453 the emission of such sparks and flames has been eliminated.
454
- 455 (9) When the temperature of any part of any PIT is found to be in excess of its normal
456 operating temperature, thus creating a hazardous condition, the PIT shall be removed
457 from service and not returned to service until the cause for such overheating has been
458 eliminated.
459
- 460 (10) PITs shall be kept in a clean condition, free of lint, excess oil, and grease.
461
- 462 (a) Noncombustible agents should be used for cleaning PITs.
463
- 464 (b) Low flash point (below 100 deg. F.) solvents shall not be used.
465
- 466 (c) High flash point (at or above 100 deg. F.) solvents may be used.
467
- 468 (d) Precautions regarding toxicity, ventilation, and fire hazard shall be consonant (in
469 agreement or harmony) with the agent or solvent used and documented as applicable
470 through a Hazard Review.
471
472

- 473 k. Operator Training
474
475 (1) Training shall be provided, documented, and recorded in accordance with the
476 requirements of NIST S 7101.23: *Safety Education and Training*.
477
478 (2) Employees and covered associates to whom this suborder applies shall receive the
479 following information and training prior to their initial assignment to operate a PIT:
480
481 (a) Training provided by OSHE on PIT safety; and
482
483 (b) Activity-specific PIT operator training provided by their OUs in accordance with 29
484 CFR 1910.178(l)(1)-(8); see 29 CFR 1910.178(l)(3) for information on activity-
485 specific training program content and 29 CFR 1910.178(l)(6) for information on
486 certification of training.
487
488 (3) Refresher training in relevant topics shall be provided to the operator when:
489
490 (a) The operator has been observed to operate the vehicle in an unsafe manner;
491
492 (b) The operator has been involved in an accident or near-miss incident;
493
494 (c) The operator has received an evaluation that reveals that the operator is not operating
495 the truck safely;
496
497 (d) The operator is assigned to drive a different type of truck; or
498
499 (e) A condition in the workplace changes in a manner that could affect safe operation of
500 the truck (e.g., adding of slopes, surface irregularities, formation of hazardous
501 atmospheres, etc.).
502
503 (4) An evaluation of each powered industrial truck operator's performance shall be conducted
504 at least once every three years and documentation maintained until the next evaluation
505 period.
506
507 l. Personal Protective Equipment (PPE)
508 (1) For any activity identified above, a hazard review conducted in accordance with OU
509 policies and procedures shall identify the appropriate PPE to be worn.
510
511
512

513 **7. DEFINITIONS**

514 Definitions common to all NIST OSH suborders can be found in Section 6 of NIST O 7101.00:
515 Occupational Safety and Health Management System. The definitions specific to this suborder
516 are as follows:

- 517
- 518 a. Attachment – A device other than conventional forks or load backrest extension, mounted
519 permanently or removably on the elevating mechanism of a truck for handling the load.
520 Popular types are fork extensions, clamps, rotating devices, side shifters, load stabilizers,
521 rams, work platforms, and booms.
522
 - 523 b. Activity – An experiment, operation, process, or job, often comprising subtasks, conducted to
524 achieve a specific outcome.
525
 - 526 c. Capacity – The capacity of a truck equipped with load carriage and forks, or with
527 attachments, is the weight at a specified load center that a given truck can transport in a carry
528 position and stack to the specified elevation of the load-engaging means.
529
 - 530 d. Class I Location – A location in which flammable gases or vapors are or may be present in
531 the air in quantities sufficient to produce explosive or ignitable mixtures. See [29 CFR](#)
532 [1910.399](#) for further detail.
533
 - 534 e. Class II Location – A location deemed hazardous because of the presence of combustible
535 dust. See [29 CFR 1910.399](#) for further detail.
536
 - 537 f. Class III Locations – A location deemed hazardous because of the presence of easily
538 ignitable fibers or flyings, but in which such fibers or flyings are not likely to be in
539 suspension in the air in quantities sufficient to produce ignitable mixtures. See [29 CFR](#)
540 [1910.399](#) for further detail.
541
 - 542 g. Hazardous Atmospheres – An atmosphere containing hazardous concentrations of vapor, gas,
543 dust, *etc.* See [29 CFR 1910.178\(c\) and \(i\)](#) for additional details.
544
 - 545 h. High Lift Rider Truck – A self-loading PIT equipped with an elevating mechanism designed
546 to permit tiering.
547
 - 548 i. Powered Industrial Truck – A mobile power-propelled truck used to carry, push, pull, lift,
549 stack, or tier material. Examples include fork trucks, tractors, platform lift trucks, motorized
550 hand trucks, and other specialized industrial trucks powered by electric motors or internal
551 combustion engines.
552

553 **8. ACRONYMS**

554 Acronyms common to all NIST OSH suborders can be found in Section 7 of [NIST O 7101.00:](#)
555 [Occupational Safety and Health Management System](#). The acronyms specific to this suborder
556 are as follows:

- 557
- 558 a. ANSI – American National Standards Institute
 - 559
 - 560 b. CFR – Code of Federal Regulations
 - 561
 - 562 c. ITSDF – Industrial Truck Standards Development Foundation
 - 563
 - 564 d. NFPA – National Fire Protection Association
 - 565
 - 566 e. NIST – National Institute of Standards and Technology
 - 567
 - 568 f. OSHE – Office of Safety, Health, and Environment
 - 569
 - 570 g. OU – Organizational Unit
 - 571
 - 572 h. PIT – Powered Industrial Truck
 - 573
 - 574

575 **9. RESPONSIBILITIES**

576 Roles and responsibilities common to all NIST OSH suborders can be found in Section 8 of [NIST](#)
577 [O 7101.00: Occupational Safety and Health Management System](#). The roles and responsibilities
578 specific to this suborder are as follows:

- 579
- 580 a. OU Directors are responsible for:
 - 581
 - 582 (1) Establishing policies and procedures, as needed, for the requirements of this program to
 - 583 be met as it applies to their employees and covered associates and to PITs operated
 - 584 during their OU operations and ensuring that those policies and procedures are
 - 585 implemented; and
 - 586
 - 587 (2) Ensuring subordinate managers have the authority, resources, and training needed to
 - 588 implement OU-established policies and procedures.
 - 589

590

- 591 b. Division Chiefs (or Equivalents)³ are responsible for:
592
593 (1) Implementing this program as it applies to activities involving their personnel in
594 accordance with any applicable OU-established policies and procedures;
595
596 (2) Allocating budgetary and other resources capable of ensuring the health and safety of
597 employees, covered associates, and visitors in divisional work areas;
598
599 (3) Providing support to divisional group leaders, safety personnel, employees, and covered
600 associates in carrying out their responsibilities with respect to implementing the
601 requirements of this suborder and managing PITs within the division; and,
602
603 (4) Acting on all incidents involving PITs and related safety concerns reported by divisional
604 personnel quickly and completely to protect employees and covered associates from the
605 health and physical hazards presented by PITs in divisional work areas.
606
- 607 c. Line Management is responsible for:
608
609 (1) Reviewing PIT procurement requests to ensure hazards have been identified and
610 evaluated prior to procurement;
611
612 (2) Reviewing PIT procurement requests to ensure PITs will be procured only when their
613 design and construction meets American National Standard for Powered Industrial
614 Trucks, Part II, ANSI B56.1-1969;
615
616 (3) Ensuring required training has been completed by affected employees and covered
617 associates; and
618
619 (4) Providing oversight as necessary aimed at ensuring that employees and covered
620 associates who operate PITs do so in accordance with this suborder.
621
- 622 d. Employees and Covered Associates are responsible for:
623
624 (1) Completing the training required by this program and their OUs/divisions;
625
626 (2) Requesting additional training as needed or as conditions change; and
627
628 (3) Operating PITs in accordance with their training and the requirements of this suborder.

³ Some NIST OUs do not have Division Chiefs; these OUs shall designate other individuals to carry out these responsibilities.

- 629 e. OSH Program Manager is responsible for:
630
631 (1) Providing safety guidance pertaining to PIT operations in accord with regulations,
632 consensus standards, and industry best practices;
633
634 (2) Reviewing this suborder at least annually and updating it when necessary to ensure its
635 effectiveness in protecting employees and covered associates from the hazards of PITs at
636 NIST workplaces; and,
637
638 (3) Making this suborder available to employees, covered associates, and upon request.
639

640
641 **10. AUTHORITIES**

642 There are no authorities specific to this suborder alone. For authorities applicable to all NIST
643 OSH suborders, see Section 9 of NIST O 7101.00: Occupational Safety and Health Management
644 System.

645
646
647 **11. DIRECTIVE OWNER**

648 Chief Safety Officer
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650
651 **12. APPENDICES**

652 A. Revision History
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Appendix A. Revision History

Version No.	Approval Date	Effective Date	Brief Description of Change; Rationale
1	03/30/18	04/01/2019	<ul style="list-style-type: none">• None – Initial document
2	10/01/2020	10/01/2020	<ul style="list-style-type: none">• Revised Section 6.k(2)(B) - The reference for activity-specific operator training was incomplete, the full OSHA regulation is now included.
3	10/29/2021	Immediate	<ul style="list-style-type: none">• Administrative Revision – Updated Footer to include version number and new page numbering protocol, and updated Revision Table to use version protocol.

656