

1 TITLE 41: FIRE PROTECTION
2 CHAPTER I: OFFICE OF THE STATE FIRE MARSHAL

3
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5 TECHNICAL REQUIREMENTS FOR UNDERGROUND STORAGE TANKS AND THE
6 STORAGE, TRANSPORTATION, SALE AND USE OF PETROLEUM
7 AND OTHER REGULATED SUBSTANCES

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98
 99 AUTHORITY: Implementing the Gasoline Storage Act [430 ILCS 15] and authorized by
 100 Section 2 of the Gasoline Storage Act [430 ILCS 15/2].

101
 102 SOURCE: Adopted at 34 Ill. Reg. 13358, effective September 2, 2010; emergency amendment
 103 at 37 Ill. Reg. 5195, effective April 4, 2013, for a maximum of 150 days; amended at 37 Ill. Reg.
 104 13443, effective August 1, 2013; amended at 42 Ill. Reg. 10476, effective October 13, 2018;
 105 amended at 47 Ill. Reg. 6837, effective May 2, 2023; amended at 48 Ill. Reg. _____, effective
 106 _____.

107
 108 SUBPART B: MOTOR FUEL DISPENSING FACILITY REQUIREMENTS

109
 110 **Section 175.200 General Requirements for Motor Fuel Dispensing Facilities**

- 111
 112 a) Other than kerosene and except as otherwise provided in this Subpart B and 41 Ill.
 113 Adm. Code 180, all dispensing of flammable and combustible liquids at motor
 114 fuel dispensing facilities shall be from underground storage tanks.
 115
 116 b) All motor fuel dispensing facilities must abide by the operating and other
 117 requirements of this Subpart B.
 118
 119 c) Motor fuel dispensing facilities must hold a current and valid motor fuel
 120 dispensing permit, as evidenced by the affixing of a current green decal from the
 121 OSFM in accordance with 41 Ill. Adm. Code 177.115, for the particular type of
 122 facility involved in order to operate. No motor fuel dispensing facility shall open
 123 for business until inspected and approved by OSFM. Facilities operating under
 124 different classifications at any time shall submit a motor fuel dispensing facility
 125 application and obtain approval~~dispensing permits~~ for and meet the requirements
 126 for the classification with the most stringent requirements that apply~~all respective~~
 127 ~~classifications that apply~~ to the facility. Approval for dispensing operations via
 128 the green decal will be granted upon compliance with 41 Ill. Adm. Code 172, 174,
 129 175, 176 and 177. No owner or other person or responsible entity shall permit

130 any person to violate the provisions of this Subpart B. Violation of the
 131 requirements for motor fuel dispensing facilities of this Subpart B may subject the
 132 owner or operator to penalties that may include revocation of the right to
 133 dispense facility motor fuel dispensing permit issued under this Subpart and the
 134 green decal issued under 41 Ill. Adm. Code 177 as required for operation of the
 135 facility. Failure to remain in compliance with UST rules may also result in
 136 OSFM's issuance of a red tag for the tanks at issue, prohibiting any further
 137 operation of the facility or further deposit of regulated substances into any tank
 138 subject to a red tag. Maintenance of equipment physically connected to the UST,
 139 including dispensers, hoses, emergency breakaways, electrical equipment directly
 140 tied to the UST, emergency stops and shear valves, are required items subject to
 141 red tag for noncompliance.

142
 143 d) Applications for a Motor Fuel Dispensing Facility Permit

- 144
- 145 1) No construction of a motor fuel dispensing facility or modification of an
 146 existing motor fuel dispensing facility shall be commenced until
 147 applications and plans are given written approval in the form of a review
 148 letter by OSFM.
 - 149
 - 150 2) Only contractors currently licensed and certified in accordance with 41 Ill.
 151 Adm. Code 172 may submit motor fuel dispensing facility permit
 152 applications. A UST contractor portal for the on-line submission of the
 153 motor fuel dispensing permit application can be found at the UST
 154 Applications and Forms page for the DPCS at
 155 [https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2f](https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2fUSTPortal)
 156 [USTPortal](https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2fUSTPortal). The applications shall be those prescribed by OSFM and
 157 plans must be submitted for each motor fuel dispensing facility showing
 158 compliance with applicable OSFM rules. The plans shall be drawn to scale
 159 and shall, at a minimum, include the following:
 - 160
 - 161 A) Lot lines and dimensions.
 - 162
 - 163 B) Building lines and dimensions.
 - 164
 - 165 C) Location and size of tanks and dispensing devices or equipment.
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 - 167 D) Location of control station (if applicable).
 - 168
 - 169 E) Locations of all emergency stops.
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- 3) After examining the submitted application and plans, OSFM shall issue a review letter valid for a period of 6 months. Submission of incomplete or illegible applications and/or plans shall be cause for denial of applications.
 - 4) Motor fuel dispensing facility work of the following kinds requires application and plan submittal to OSFM prior to commencing the work:
 - A) A station being newly constructed.
 - B) A station being established in a building that previously contained a different occupancy.
 - C) Making substantial modifications to an existing facility. Substantial modification would include, but not be limited to:
 - i) Installation of new dispensing islands or dispensers in new locations.
 - ii) Relocation of an emergency stop.
 - D) Changing from one facility classification~~category~~ to another, as those classifications~~categories~~ are listed in Sections 175.210 through 175.250. The requirement to submit a motor fuel dispensing facility application and comply with the most stringent set of dispensing requirements~~obtain a permit for the change~~ will still apply even if only part of the facility is being changed, ~~(for example only one dispenser island)~~ or if the facility plans to operate under a different classification~~category~~ for only a portion of a 24-hour period.
 - E) Construction or relocation of buildings on the property, even if they are not the "primary" motor fuel dispensing facility station control buildings.
 - 5) Motor fuel dispensing facility work of the following kinds does not require application and plan submittal to OSFM prior to commencing the work. This type of work or modifications will be inspected by OSFM when the facility is due for permit renewal:
 - A) Like-for-like replacement of existing equipment (e.g., replacement of existing dispensing cabinets or components not involving the shear valve or items below the shear valve; changing existing

- 213 dispensing nozzles, hoses or fittings; replacing an existing
214 emergency stop in its current location).
- 215
- 216 B) Replacing (or installing additional) collision protection posts or
217 guardrails.
- 218
- 219 C) Changing or replacing warning or instructional signs.
- 220
- 221 D) Replacing or adding to the complement of portable fire
222 extinguishers.
- 223
- 224 6) In addition to the requirement for a motor fuel dispensing permit pursuant
225 to this Subpart before any dispensing can occur, work affecting UST
226 components or equipment shall also require a separate Section 175.300
227 permit to be obtained via the submittal of separate applications to OSFM
228 pursuant to that Section.
- 229
- 230 e) Issuance and Renewal of Motor Fuel Dispensing Facility Permits
- 231
- 232 1) A motor fuel dispensing facility permit or permit renewal will be issued
233 [via the green decal](#) by OSFM after an on-site inspection has been
234 conducted by OSFM to verify compliance with all applicable OSFM
235 administrative rules.
- 236
- 237 2) No motor fuel dispensing facility shall open for business until inspected
238 and approved by OSFM, and until OSFM issues a [green decal](#) ~~motor fuel~~
239 ~~dispensing facility permit~~, which must be prominently displayed at all
240 times at the motor fuel dispensing facility. ~~When a facility is required to~~
241 ~~obtain more than one kind of permit, all the permits shall be displayed.~~
- 242
- 243 3) Motor fuel dispensing facility permits shall be issued [via the green decal](#)
244 on a biennial basis. These permits ([issued via the green decal](#)) shall expire
245 on December 31 of the year shown on the [decal](#) ~~permit~~.
- 246
- 247 4) Any name or ownership change shall require completion of an electronic
248 Notification of Ownership Change for Underground Storage Tanks under
249 41 Ill. Adm. Code 176.440(g) within 30 days, at the UST Applications and
250 forms page for the DPCS at
251 [https://sfm.illinois.gov/about/divisions/petroleum-chemical-](https://sfm.illinois.gov/about/divisions/petroleum-chemical-safety/applications-and-forms.html)
252 [safety/applications-and-forms.html](https://sfm.illinois.gov/about/divisions/petroleum-chemical-safety/applications-and-forms.html). Copies of proof of legal ownership,
253 including, but not limited to, the current deed, contract or lease, shall be
254 downloaded with this Notification.
- 255

- 256 f) Storage and handling of LP gases at motor fuel dispensing facilities shall be in
257 accordance with 41 Ill. Adm. Code 200.
258

259 (Source: Amended at 48 Ill. Reg. _____, effective _____)
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261 SUBPART C: PERMITS, FEES AND SCHEDULING
262

263 **Section 175.300 Permitted UST Activity**
264

265 Any UST activity or other permitted activity under this Section must comply with the following:
266

267 a) Permit Requirements
268

- 269 1) Prior to the onset of UST activity, a completed permit application,
270 including fee payment of \$200 per permitted activity, shall be submitted to
271 OSFM.
272
- 273 2) A separate fee is required for each type of activity.
274
- 275 3) This fee is to be paid by check or money order made payable to "Office of
276 the State Fire Marshal", or electronic payment via the UST contractor
277 portal (at
278 [https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2f](https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2fUSTPortal)
279 USTPortal) and is to be from the licensed contractor obtaining the permit.
280
- 281 4) Only contractors currently licensed and certified in accordance with 41 Ill.
282 Adm. Code 172 may obtain permits. Contractors are required to be
283 OSFM licensed and have at least one employee doing the work who shall
284 be certified under 41 Ill. Adm. Code 172 for the UST activity that is being
285 performed. A UST contractor portal for the on-line submission of permit
286 applications and the scheduling of permitted work can be found at the
287 website cited in subsection (a)(3).
288
- 289 5) Only licensed contractors, their employees or subcontractors may perform
290 the permitted UST activity in accordance with 41 Ill. Adm. Code 172.
291
- 292 6) Permit applications denied or rejected the second time will require a new
293 permit application and submission of a new fee.
294
- 295 7) Permit applications and issued permits are not transferable.
296
- 297 8) The owner of the UST must be identified on the permit application.
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- 9) No permit may be issued when the current owner listed on the application owes fees pursuant to 41 Ill. Adm. Code 176.450 or 176.455 until the fees are paid in full.
 - 10) No permit may be issued for UST activity unrelated to correcting existing violations while the violations continue to exist on that same site.
 - b) No UST activity requiring a permit may proceed without a granted permit.
 - c) No UST owners or operators may perform any UST activity, unless the owner complies with the licensing and certification requirements of 41 Ill. Adm. Code 172.
 - d) UST activity performed that is not in compliance with the conditions of a permit issued to a licensed contractor, or false information supplied to obtain a permit, is cause for permit revocation, or suspension or revocation of the license of the contractor to perform any UST activity.
 - e) For purposes of this Section, the following terms shall be considered interchangeable or equivalent: "installer" and "replacer"; "install" and "replace"; "repairer" and "a person who upgrades"; "repair" and "upgrade"; "remover" and "a person who abandons-in-place"; and "remove" and "abandon-in-place".
 - f) Actions Requiring a Permit. A permit is required to do any of the following to USTs:
 - 1) install new underground tanks or piping;
 - 2) remove tanks or piping;
 - 3) abandon-in-place a UST or piping;
 - 4) upgrade;
 - 5) repair, including replacing flex connectors, risers or vents. If the work performed on risers or vents is done as a result of water ingress or a failed tank precision test, a subsequent tank precision test shall be performed after the work is completed;
 - 6) line a double-walled tank for compatibility purposes;
 - 7) inspect linings;

- 342 8) emergency repairs;
343
344 9) repair, install or remove cathodic or corrosion protection, including on flex
345 connectors;
346
347 10) perform any hot work on a UST;
348
349 11) installation, upgrade or removal of the following (except for any like-for-
350 like replacements listed in subsection (g)):
351
352 A) leak detection systems (see Section 175.630(f), providing that
353 existing interstitial monitoring sensors and systems cannot be
354 removed);
355
356 B) spill containment at the tank or remote fills; and
357
358 C) overfill prevention equipment;
359
360 12) dispenser activity that triggers the requirement to install under-dispenser
361 containment under Section 175.410(e) and any new dispenser location;
362
363 13) submersible activity that triggers the requirement to install a tank
364 containment sump under Section 175.410(c);
365
366 14) electronic enhancement of an automatic tank gauge (ATG) that requires
367 work within the ATG control module;
368
369 15) connection of a new or existing bulk load-out to a new or existing UST at
370 a motor fuel dispensing facility; and
371
372 16) reclassifying a regulated interstitial sensor to a non-regulated interstitial
373 sensor.
374
375 g) Actions Not Requiring a Permit
376
377 1) No permit is required to do like-for-like replacements for the following:
378
379 A) submersible pumps, if already equipped with a tank containment
380 sump;
381
382 B) spill containment devices (insert replacements shall be at least 3.5
383 gallons capacity; newly installed spill containment devices shall be
384 a minimum of 5 gallons capacity);

- 385
 386 C) drop tube valves;
 387
 388 D) ATG probes;
 389
 390 E) mechanical line leak detectors;
 391
 392 F) electronic line leak detectors;
 393
 394 G) wireless electronic line leak detectors;
 395
 396 H) rectifiers;
 397
 398 I) interstitial monitoring sensors; or
 399
 400 J) replacement of the bolted-on top section of a shear valve only
 401 (replacement of an entire shear valve requires a permit and under-
 402 dispenser containment).
 403
- 404 2) The exceptions listed in subsection (g)(1) are the only exceptions from the
 405 permit requirement. If the equipment is not present or another type of
 406 equipment is to be used, a permit shall be required. Any pipe or flex
 407 connector work requires a permit. However, merely disconnecting a
 408 fitting, coupling or union without replacing that fitting, coupling or union
 409 to accomplish the replacement of the like-for-like equipment on the list in
 410 subsection (g)(1) will not by itself trigger the requirement for a permit.
 411 Although a permit is not required for like-for-like replacements, the work
 412 must still be performed by a licensed contractor. When product piping is
 413 broken or disconnected to perform a like-for-like replacement, the piping
 414 line must be precision tested as tight prior to putting the piping line back
 415 into service. Replacing any of the equipment listed in subsection (g)(1)
 416 must be reported electronically, within 24 hours after the activity, to
 417 OSFM, on a Like-for-Like Replacement Report form provided by OSFM
 418 (available at the website cited in subsection (a)(3)), listing the make,
 419 model and manufacturer of the equipment as applicable, and indicating
 420 where the equipment is being installed. For a list of the types of OSFM
 421 permits required for specific permitted UST activities, see Appendix B.
 422
- 423 h) Expiration and Extension of Permits. Permits expire 6 months from the date they
 424 are issued. The applicant may apply for additional 6-month extensions. Permit
 425 extensions that circumvent newly adopted technical requirements will not be
 426 allowed. If a party submits evidence of non-cancelable contracts executed in
 427 reliance on the permit sought to be extended, or if work has commenced, a party

428 will not be viewed as circumventing the technical requirement. Each extension
429 request must be submitted electronically or in writing before the permit lapses and
430 must be accompanied by a \$200 fee.

431
432 i) Amended Permits. Granted permits may be amended twice without a new
433 application fee. For all permit amendments, each change that requires a new licensed
434 contractor, more than minor changes to the site plan, or another engineering
435 review to determine acceptability will require submission of a new permit
436 application and \$200 fee. Drawings related to any amendment must be submitted
437 to OSFM with the amendment. Permit amendments that circumvent newly
438 adopted technical requirements will not be allowed.

439
440 j) Site plans showing setback distances shall be submitted by the licensed
441 contractor listed on the permit application, to OSFM, along with any motor fuel
442 dispensing permit application required by Section 175.200. Site plans are subject
443 to approval by OSFM before any new construction, addition or remodeling that
444 alters building size, when encroachment on required setbacks would occur;
445 dispenser locations; or locations or sizes of vehicle service area or storage tanks.
446 Removals, lining and upgrades that involve replacing equipment with that of identical
447 manufacture and model do not require submission of site plans.

448
449 k) Miscellaneous

450
451 1) In the event that equipment requiring a permit is installed without a permit
452 or in violation of the terms of the permit, the owner/operator shall be
453 required to do the following:

454
455 A) Hire an OSFM licensed contractor other than the person and
456 company who did the unauthorized/non-permitted work.

457
458 B) Submit the proper permit application to OSFM and obtain approval
459 from OSFM.

460
461 C) The work shall be uncovered as necessary to allow proper
462 inspection of the UST installation or modification at issue and
463 OSFM may require any changes necessary to bring the installation
464 into compliance with 41 Ill. Adm. Code 160, 172, 174, 175, 176,
465 177 and 180.

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467 D) If a safety issue is presented by the circumstances, a work site or
468 UST may also be temporarily shut down to protect public safety.

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- 2) When removed piping exceeds 20 feet or 50% of the total piping run at a site, both a removal and an upgrade permit are required. Whenever a removal permit is issued, a site assessment pursuant to 41 Ill. Adm. Code 176.330 is required to be conducted as part of the removal work. When there are indications of a leak that are not contained to the UST system, owners and operators shall follow the procedures and requirements of 41 Ill. Adm. Code 176.Subpart C.
 - 3) A valid permit does not remedy the technical compliance aspects of a violation until the work is completed and does not allow for any extensions of time for compliance. Completion of the work and a satisfactory OSFM final inspection does not preclude OSFM enforcement action against the person who illegally installed the equipment without a permit.
- l) Permits for Marinas. Due to the unique characteristics of the site at marina locations, additional information will be required as specified in this subsection (l) and as determined to be necessary by OSFM.
- 1) Additional statements will be required as requested by OSFM to substantiate ownership or consent from authorities having jurisdiction over the waterway.
 - 2) Site Plans and Drawings. Detailed site plans and drawings shall be supplied as requested by OSFM to show length, width, location and configuration of the dock, type of construction, dispenser location and dispensing area, along with profiles of the UST indicating differences in elevation between tanks, piping and dispensers showing all valves, manholes, sumps, location of leak detection equipment, anti-siphon devices, pressure relief valves, pipe chases, sewage lines, etc. High water, low water and normal pool elevations shall also be given in relation to tank, piping and dispensers, along with any pertinent site characteristics.
- m) Permits for Abandonment-in-Place
- 1) An on-site waiver request or evaluation establishing the existence of at least one of the eligibility criteria of Section 175.840(a) shall be submitted by the OSFM-licensed contractor and must include accurate site plans. A complete plan or diagram of the area shall be provided and show the location of tanks, fill pipes, vent lines, sewers, streets, product lines, utilities and buildings. The facility name and location and the number and size of USTs involved shall also be included in the site plans.

- 513 2) A description of the specific inert material to be used shall be indicated on
514 the permit application. Allowed inert material shall be limited to sand,
515 gravel, clay, bentonite or inert material mixed with portland cement to
516 increase flowability. The portland cement concentration may not exceed
517 50 lbs. per cubic yard of mixed material. Any other materials must be
518 approved by OSFM during the permit process. Tripolymer foam may only
519 be used on compartment tanks where at least 1 compartment is not being
520 abandoned-in-place and will remain in use. If tripolymer foam is to be
521 used, the permit application must include buoyancy calculations based
522 upon the particular tripolymer foam to be used. Information must also be
523 included that verifies the methods and materials that will be used to
524 protect against UST floatation once abandoned-in-place. PEI/RP-100
525 addresses the issue of floatation and anchorage calculations that may be of
526 assistance to the submitting contractor relative to determining ballast
527 needs.
528
- 529 3) If the ability to abandon-in-place is questioned, a third-party professional
530 structural engineer may be used to determine the feasibility of removal in
531 order to verify that the tank is or is not eligible to be abandoned in place
532 under Section 175.840(a).
533
- 534 n) For permits applicable to mobile fueling sites and related contractors, see 41 Ill.
535 Adm. Code 174.440 and 174.450.
536
- 537 ~~o) In the event there is a delegation of authority to any municipality having a
538 population over 500,000 to enforce UST rules and regulations, pursuant to the
539 Gasoline Storage Act [430 ILCS 15/2] and subject to the terms of that agreement,
540 that municipality and its employees may directly conduct permitting, inspections
541 and enforcement regarding UST activities within the jurisdiction of that
542 municipality. Permitting, inspections and enforcement may include biennial audits
543 and other inspections, the completion and issuance of inspections forms and
544 notices, issuing permits, and assessing and collecting permit fees for that
545 municipality's own use which are otherwise to be assessed and collected by
546 OSFM under subsections (a)(1) through (a)(10). Subject to the terms of that
547 agreement, when OSFM is expressly authorized to initiate enforcement action,
548 that municipality has concurrent authority pursuant to Section 2(1)(a) of the
549 Gasoline Storage Act [430 ILCS 15/2(1)(a)]. In conducting permitting,
550 inspections and enforcement activities, the municipality shall strictly follow the
551 administrative rules of OSFM promulgated pursuant to the Gasoline Storage Act
552 [430 ILCS 15] and the Petroleum Equipment Contractors Licensing Act [225
553 ILCS 729].
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555 (Source: Amended at 48 Ill. Reg. _____, effective _____)~~

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Section 175.320 Scheduling of UST Activity

- a) All permitted activity shall be scheduled with OSFM. There are 2 sets of procedures for scheduling permitted activity, Operational Safety Inspection (OSI) or Performance Assurance Inspection (PAI). The procedures for scheduling OSI Activity (Date Certain) are set forth in subsection (c) and for PAI Activity (Date and Time Certain) are set forth in subsection (d). A licensed contractor shall have at least one employee certified for the UST activity for which the permit was issued actively supervising in person the UST activity being performed on the site. At all times during permitted activity, including at all STSS inspections, including any final inspection, there shall be an employee or individual contractor certified in the work to be done on the job site. Subcontractors are not "employees" for this purpose.

- b) No permitted and scheduled OSI or PAI activity can be performed outside the schedule unless changes have been approved in advance by OSFM. Notice of cancellation must be received by OSFM no later than 6:00 a.m. of the scheduled date and the revised date of the work must be at least one complete working day after OSFM receipt of the revised job schedule request. The day of receipt is not included in the advance notice/receipt calculation. A new permit and fee will be required when there is a failure to meet any of the schedules. This includes not being present for inspection, not being completely ready for inspection, violation of any technical requirements for the permitted work, allowing permit to expire before completing the final inspection, or not canceling the job within the allowed time frame. Failure to meet the schedules also includes a failure to complete all UST work and site preparation necessary for the STSS inspection, including any necessary testing and related corrections, prior to the time the STSS is scheduled to first arrive. Upon these events, the permit is considered void and no work may commence until a new permit is issued and the work scheduled pursuant to this Section.

- c) OSI (Date Certain) Activity. OSI activity includes UST installations, installation or removal of over 20 feet or 50% of the total piping run or an entire pipe run, tank removal, abandonment-in-place, lining and lining inspection, tank entry and any hot work. Regarding UST installation, scheduled OSFM inspections are required for an air test on the tank prior to installation, tank installation, air test on primary lines, air test on secondary containment, hydrostatic test on containments prior to backfill, and final inspection. Regarding installation of an entire pipe run, OSFM inspections are required for both the primary and secondary air test on the piping and a hydrostatic test on containments prior to backfill, and final inspection. Any additional inspection in follow-up to tank penetration via hot work,

598 including a final lining inspection and tank precision testing, shall be scheduled as
 599 a PAI inspection. For a listing of OSI activities, see Appendix A to this Part.

- 600
- 601 1) For OSI activity, the licensed contractor shall have a granted permit before
 602 scheduling with OSFM to establish a specific date and time that is not less
 603 than one complete working day before the anticipated date of the permitted
 604 activity. A UST contractor portal for the on-line submission of permit
 605 applications and the scheduling of permitted work can be found at the UST
 606 Applications and Forms page for the DPCS at
 607 [https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2fU](https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2fUSTPorta)
 608 [STPorta](https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2fUSTPorta).
 609
- 610 2) Only the licensed contractor or an employee of the contractor (this does
 611 not include subcontractors) may schedule the work with OSFM.
 612
- 613 3) For OSI activity, the work will not be allowed to be done unless an STSS
 614 is on site.
 615
- 616 4) At the final OSI (Date Certain) inspection on a lining, a licensed contractor
 617 representative is not required to be on site but scheduling of the final
 618 inspection is required.
 619

620 d) PAI (Time and Date Certain) Activity. PAI permitted activity includes upgrades
 621 not involving piping installation, repairs not involving hot work, or cathodic
 622 protection activity. PAI activities will be scheduled for a period of at least 2
 623 working hours (between 8:30 a.m. and 3:30 p.m. on State business days) and
 624 subsequent activities that interfere with the ability to inspect will not proceed until
 625 the time period is over. Tank and line precision testing and cathodic protection
 626 testing following permitted activity must be scheduled with OSFM pursuant to
 627 subsection (d)(2). For a listing of OSI activities, see Appendix A.
 628

- 629 1) Permitted PAI Activity. The licensed contractor shall have a granted
 630 permit before scheduling the permitted activity with OSFM not less than
 631 one complete working day before the anticipated date of work. A UST
 632 contractor portal for the on-line submission of permit applications and the
 633 scheduling of permitted work can be found at the website cited in
 634 subsection (c)(1). The Division of Petroleum and Chemical Safety
 635 (DPCS) will transmit an e-mail confirmation of scheduling approval
 636 back to the contractor within one working day. Work shall not commence
 637 until the contractor receives this confirmation. Only the licensed
 638 contractor or an employee of the contractor (this does not include
 639 subcontractors) may schedule the work with OSFM.
 640

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- 2) Non-permitted PAI Activity. Non-permitted PAI activity includes tank and line precision testing and cathodic protection testing following permitted activity. The licensed contactor or contractor's employee shall schedule the activity with OSFM in advance of the anticipated work. Only the contractor or an employee of the contractor (this does not include subcontractors) may schedule the work with OSFM. A UST contractor portal for the on-line scheduling of non-permitted work can be found at the website cited in subsection (c)(1).
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- 3) When only installing a bag, wristband or spike anode for cathodic protection in a containment sump, or a spill containment device with or without a riser replacement, or an overfill prevention device, or when an interstitial sensor is being reclassified from regulated to non-regulated, at the final PAI (Time and Date Certain) inspection, a licensed contractor representative is not required to be on site, but scheduling of the final inspection is required.
- 658
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661
- 4) Any time an emergency repair permit is issued, the licensed contractor shall electronically schedule and complete the final inspection within 10 days after issuance of the permit.
- 662
663
- e) UST Installation.
- 664
665
666
- 1) For all UST installations, the final inspection shall not be scheduled without prior submission of:
- 667
668
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671
- A) the completed electronic Notification for Underground Storage Tanks form and its accompanying Authorization to Submit (available at <https://sfm.illinois.gov/about/divisions/petroleum-chemical-safety/applications-and-forms.html>);
- 672
673
- B) the completed OSFM on-line forms for all required testing; and
- 674
675
676
- C) if applicable, the completed motor fuel dispensing permit application.
- 677
678
679
- 2) Other kinds of permitted work do not require submission of this Notification form.
- 680
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683
- f) There shall be no transfer or sale of product from a UST until the UST is in compliance with OSFM rules and any required final inspection has been completed. Any request to fill a required minimal amount of fuel necessary to perform compliance testing must be submitted electronically by an OSFM-licensed

684 contractor and approved by OSFM in advance. A Drop Fuel Request form is
 685 available at the UST contractor portal at the website cited in subsection (c)(1). A
 686 depositor may make one deposit of a regulated substance to a newly installed or
 687 newly lined tank to provide ballast; that fuel shall not be sold or dispensed until the
 688 required decal is obtained.

689
 690 g) ~~In the event there is a delegation of authority to any municipality having a~~
 691 ~~population over 500,000 to enforce UST rules and regulations, pursuant to the~~
 692 ~~Gasoline Storage Act [430 ILCS 15/2], subject to the terms of that agreement, that~~
 693 ~~municipality and its employees may, under this Section, supervise the above-~~
 694 ~~referenced activities in place of OSFM and its employees, regarding UST~~
 695 ~~activities within the jurisdiction of that municipality. In supervising such~~
 696 ~~permitted UST activity, the municipality shall strictly follow OSFM~~
 697 ~~administrative rules promulgated pursuant to the Gasoline Storage Act [430 ILCS~~
 698 ~~15] and the Petroleum Equipment Contractors Licensing Act [225 ILCS 729].~~
 699

700 (Source: Amended at 48 Ill. Reg. _____, effective _____)
 701

702 SUBPART H: REMOVAL, ABANDONMENT AND CHANGE-IN-SERVICE

703
 704 **Section 175.810 Out of Service**
 705

706 a) USTs may be put into an out of service status provided they meet the performance
 707 standards for new UST systems or the upgrading requirements specified in 41 Ill.
 708 Adm. Code 174, 175 and 176 and 40 CFR 280, except that spill and overfill
 709 prevention equipment requirements do not have to be met. The USTs may
 710 continue in an out of service status for a period of 5 years from the date of last use
 711 provided they meet the following requirements:

- 712
 713 1) The tank and product lines shall be emptied immediately upon placing the
 714 UST in an out of service status. The UST is empty when all materials have
 715 been removed using commonly employed practices so that no more than
 716 2.5 centimeters (one inch) of residue, or 0.3% by weight of the total
 717 capacity of the UST system, remain in the system.
 718
- 719 2) Pursuant to Sections 175.500 and 175.510, all corrosion protection shall
 720 be maintained and operational for all tanks and lines, and tested as
 721 required, to include flex/pipe connectors. This will include any monthly
 722 logs that need to be maintained.
 723
- 724 3) OSFM must receive a written request, within 30 days after the date the
 725 tank was last used, requesting an out of service status. The request shall be
 726 submitted on a Notification for Underground Storage Tanks on OSFM

- 727 forms (available at [https://sfm.illinois.gov/about/divisions/petroleum-](https://sfm.illinois.gov/about/divisions/petroleum-chemical-safety/applications-and-forms.html)
728 [chemical-safety/applications-and-forms.html](https://sfm.illinois.gov/about/divisions/petroleum-chemical-safety/applications-and-forms.html)).
- 729
- 730 4) Vent lines shall be left open and functioning.
- 731
- 732 5) Financial Responsibility shall be maintained until such time as the UST is
733 removed or abandoned-in-place in accordance with OSFM rules (see 41
734 Ill. Adm. Code 176.245).
- 735
- 736 65) Within 7 days, the owner/operator shall cap and secure all product lines
737 and secure all pumps, manways and ancillary equipment.
- 738
- 739 76) Subject to all other applicable OSFM requirements, a UST may be put
740 back in operation any time during the first 12 months, without meeting the
741 requirements of subsection (d), subject to the requirement that OSFM be
742 notified in writing on the Notification for Underground Storage Tanks
743 form at least 10 days prior to operation. The form is available at the
744 website cited in subsection (a)(3).
- 745
- 746 b) Failure to maintain impressed current system corrosion protection on any tank or
747 piping systems at any point during the remaining 4-year out of service period
748 referenced in subsection (d) shall require the removal of the USTs. When testing
749 of anodes has been delayed past the regular 3-year testing interval, any anode
750 system that fails testing shall require removal of the affected tanks or piping.
- 751
- 752 c) Failure to empty tanks in an out of service status shall require the owner to
753 remove all contents to less than an inch before proceeding with bringing the tanks
754 back into service.
- 755
- 756 d) Systems that have been out of use for over one year but less than 5 years may be
757 put back in service provided that the facility meets all the applicable requirements
758 in Parts 172, 174, 175, 176 and 177 and the following additional requirements are
759 met:
- 760
- 761 1) Tanks and lines shall be precision tested and proven sufficient.
- 762
- 763 2) Tank and line release detection is tested and proven operational.
- 764
- 765 3) Cathodic protection is tested and proven sufficient.
- 766
- 767 4) A site assessment is conducted prior to bringing the UST back into
768 service.
- 769

- 770 5) All tests referenced in subsections (d)(1) through (d)(3) must be performed
771 not more than 90 days and not less than 30 days before placing the tank
772 back in service and submitted to OSFM at least 10 days prior to reopening
773 so that a certification audit can be performed.
774
- 775 6) Prior to a tank being put back in service, all requirements for return to
776 service must be met, and all testing and inspections passed, and a
777 Notification for Underground Storage Tanks Form placing the tanks
778 "Currently in Use" must be submitted. The form is available at the OSFM
779 website cited in subsection (a)(3) above.
780
- 781 e) Single-wall USTs over 30 years old that have been in an out of service status
782 more than one year shall be removed rather than placed back into service.
783
- 784 f) If a UST is not placed back into service within 5 years from the date of last use,
785 the tank system shall be removed within 60 days after the conclusion of the 5-year
786 period.
787
- 788 g) USTs with double-walled tanks and piping shall not be subject to the 5-year limit
789 during the period that is 30 years after the date of installation or while the tank
790 manufacturer's warranty is in place, whichever is less, if all of the following
791 requirements are met:
792
- 793 1) Corrosion protection has been and continues to be maintained;
794
- 795 2) Any UST components found to be defective are replaced in the 45 days
796 prior to any return to ~~service~~active use; and
797
- 798 3) All requirements for return to ~~service~~use under subsection (d) and this
799 Section are met.
800
- 801 h) For purposes of this Section, "back in service" means that all regulatory
802 requirements for a return to service have been met, and that the facility has begun
803 regular dispensing operations typical for the location and is compliant with all
804 leak detection, corrosion protection, and operator training requirements.
805

806 (Source: Amended at 48 Ill. Reg. _____, effective _____)
807

808 **Section 175.830 Removal of USTs**
809

- 810 a) For tank and piping removals, the following requirements and procedures shall be
811 followed:
812

- 813 1) Compliance with subsections (a)(2) through (a)(18) is the responsibility of
814 the licensed contractor.
815
- 816 2) Except as otherwise provided in this Section, the procedures of API 1604,
817 incorporated by reference in 41 Ill. Adm. Code 174.210, shall be followed
818 for vapor freeing and inerting procedures.
819
- 820 3) Secure a removal permit~~proper permitting~~ and schedule removal date with
821 OSFM. When removed piping exceeds 20 feet or 50% of the total piping
822 run at a site, a removal permit is required (in addition to any other permit
823 that would normally be required). A new permit and fee will be required
824 when there is a failure to meet the Date Certain schedule established under
825 Section 175.320, including not showing for the inspection, not being
826 completely ready for the inspection, allowing the permit to expire before
827 the inspection, or not cancelling the job before 6:00 a.m. the morning of
828 the scheduled activity. (See Section 175.300 for additional permit
829 requirements.)
830
- 831 4) Maintain all combustible gas indicator equipment according to
832 manufacturer's specifications.
833
- 834 5) Establish an exclusion zone within which smoking is prohibited, which
835 shall include all hazardous (classified) locations/areas where work related
836 to removal is being conducted. The use of spark producing/non-explosion
837 proof equipment is prohibited in the vapor hazard area prior to removal of
838 product and sludges and attaining the lower explosive limit (LEL)/oxygen
839 levels required in subsection (a)(9).
840
- 841 6) Excavate to the top of the tank. Drain product from piping into the tank or
842 into approved drums, being careful to avoid any spillage to the excavation
843 area. Safely disconnect product piping from the tank. Further excavation
844 below the top of the tank is not allowed until STSS has verified that tank
845 conditions meet the LEL/oxygen criteria of subsection (a)(9).
846
- 847 7) Remove all liquids from the tank using explosion-proof pumps or hand
848 pumps. When suctioning product out of tanks, plastic pipes shall not be
849 allowed as a suction tube.
850
- 851 8) Regularly monitor the tank atmosphere and the excavation area with a
852 combustible gas indicator for flammable or combustible vapor
853 concentration until the tank is removed from both the excavation and the
854 site. Monitoring the UST shall be done at 3 levels in the tank: top, middle

- 855 and bottom. A confined space entry permit shall be obtained prior to tank
 856 entry and Safety Data Sheets (SDS) must be on site.
 857
- 858 9) Regularly monitor the tank to insure explosive conditions do not exist. A
 859 maximum of 5% of the LEL, or 5% or less oxygen concentration, shall be
 860 attained before the tank is considered safe for removal, instead of 10%, as
 861 required in the API 1604. Dry ice shall not be allowed as a method of
 862 inerting tanks as referred to in API 1604.
 863
- 864 10) Bond all devices to the tank and ground the tank to a separate ground
 865 when vapor freeing the tank with compressed air or using inert gases
 866 under pressure. When using inert gases the cylinder shall be equipped with
 867 a pressure gauge, so that no more than 5 psi can be discharged into the
 868 tank during vapor freeing procedures. To ensure and maintain proper
 869 grounding and bonding, the connections shall be tested by the contractor
 870 for continuity. This testing shall be done with equipment designed for
 871 continuity testing. When vapor freeing of tanks, plastic pipes shall not be
 872 allowed as a vent tube on eductors.
 873
- 874 11) Plug and cap all accessible tank holes. One plug should have an 1/8 inch
 875 vent hole.
 876
- 877 12) Excavate around the tank to prepare for removal. This shall include
 878 excavation along one side and one end, from top to bottom.
 879
- 880 13) A STSS shall be on site before any tanks and piping are removed.
 881
- 882 14) With STSS on site, remove tank and piping from the ground. Equipment
 883 with sufficient lifting capacity shall be used to lift the tank from the
 884 excavation and must be rated as appropriate for the particular site and
 885 excavation.
 886
- 887 15) Protective Equipment and Tank Cleaning Requirements
 888
- 889 A) Cleaning procedures shall be in accordance with API 2015,
 890 incorporated by reference in 41 Ill. Adm. Code 174.210. Personal
 891 protection requirements for tank cleaning personnel shall, at a
 892 minimum, include the following:
 893
- 894 i) protective respiratory equipment for tank cleaning
 895 personnel shall be the type that provides supplied positive
 896 air pressure to a full-face mask throughout the breathing

- 897 cycle during all cleaning operations, in accordance with
898 API 2015;
899
900 ii) level B personal protective equipment with body harness
901 and tag line;
902
903 iii) protective booties;
904
905 iv) continual monitoring of LEL and oxygen during cleaning;
906 and
907
908 v) attendant/observer.
909
910 B) Requirements in subsection (a)(15)(A) shall not apply in the event
911 that no physical entry is made into the tank.
912
913 16) Any UST removed from the excavation zone shall be properly cleaned on
914 site the day of the removal and removed from the site within 24 hours.
915
916 17) Tanks larger than 2,000 gallons in capacity shall have holes or openings
917 no less than 3 feet x 3 feet, one on each end or side, for cleaning. Tanks
918 less than 2,000 gallons capacity shall have one entire side removed from
919 end to end and shall be no less than 3 feet wide.
920
921 18) The use of spark producing/non-explosion proof equipment is prohibited
922 in the vapor hazard area prior to attaining the LEL/oxygen levels required
923 in subsection (a)(9).
924
925 19) If an STSS has observed evidence of a release, the owner, operator or
926 designated representative of the UST owner/operator must notify the
927 Illinois Emergency Management Agency. This is to be done at the site
928 immediately following the field determination and the incident number
929 shall be given to the STSS prior to his/her leaving the site.
930
931 20) All removals require a site assessment pursuant to 41 Ill. Adm. Code
932 176.330.
933
934 21) Any tank being removed without an OSFM permit will be required to be put
935 back in the excavation and vented to 12 feet above grade if it has not been
936 removed from the site and covered with backfill until a permit and
937 licensed contractor can remove it properly.
938
939 b) Bunker Tanks

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- 1) A commercial heating oil or emergency power generator tank situated below grade, in a basement, on a floor, and enclosed in a masonry wall structure, with the tank completely or partially covered by sand, or otherwise not fully accessible to inspection, commonly referred to as a "bunker tank", meets the definition of a UST (see 41 Ill. Adm. Code 174.100). Removal of a bunker tank shall require the owner or operator to hire a licensed decommissioning contractor to secure proper permitting and schedule the removal pursuant to Section 175.320.
- 2) That section of the enclosing masonry partition wall that is not part of the building's basement exterior wall will need to be dismantled, and all sand within the enclosure removed. Both masonry rubble and sand from the enclosure will be hauled off as special waste under manifest by a licensed waste hauler (see 35 Ill. Adm. Code 808 and 809).
- 3) The exposed tank will be emptied as much as possible of any residual liquids, and the area will be monitored for vapors, and ventilation provided as needed to maintain LELs of 5% or less. No further work on the tank removal will be allowed unless the STSS is on site.
- 4) With the STSS on site and LELs at a maximum of 5%, the tank will be accessed for cleaning. Tanks larger than 2,000 gallons in capacity shall have holes or openings no less than 3 feet x 3 feet, one on each end or side, for cleaning. Tanks less than 2,000 gallons capacity shall have one entire side removed from end to end and shall be no less than 3 feet wide.
- 5) Once cleaned, the tank will be cut up on site, the pieces removed from the building, and all parts of the tank scrapped.
- 6) Once the enclosure wall, sand and tank have been properly removed, the area where the bunker tank had been will be evaluated under the direction of the STSS on site.
 - A) For bunker tanks, soil sampling and a site assessment will be required if either of the following conditions are found:
 - i) Evidence indicating product may have migrated from the bunker tank to the environment beyond the floor or walls of the building it was located within, such as finding free product in a drain; or

- 982 ii) Evidence is seen of both leakage of product on the floor or
983 building wall where the bunker tank was located, and the
984 area of floor or wall associated with evidence of leakage of
985 product from the bunker tank is deteriorated or cracked
986 such that there is a possibility of the product having
987 migrated beyond the enclosure confines.
988
- 989 B) In the event that any of the conditions described in subsection
990 (b)(6)(A)(i) or (ii) are found, samples will be obtained from soil
991 borings from beneath the floor or from outside the wall from areas
992 where contamination is most likely to be present, based on the
993 evidence discovered. Samples will be submitted for analysis, and a
994 release shall be reported if indicated.
995
- 996 C) In the event that none of the conditions described in subsection
997 (b)(6)(A)(i) or (ii) are found, no samples from soil borings will be
998 required, and no incident shall be reported.
999
- 1000 D) The STSS on site will clearly document his/her observations under
1001 "Remarks" on the Log of Removal, noting whether any of the
1002 conditions listed in subsections (b)(6)(A)(i) and (ii) were present.
1003
- 1004 7) In addition to submitting the OSFM Site Assessment Results Report form,
1005 the following supplemental documentation shall also be submitted to
1006 OSFM to properly close the removal of a bunker tank. The form is
1007 available at the website cited in subsection (a)(19). In the event there is
1008 "Contamination" being reported:
1009
- 1010 A) The report from the lab, including analytical results derived from
1011 the soil samples showing locations of the samples taken, shall be
1012 attached to the OSFM Site Assessment Results Report;
1013
- 1014 B) The OSFM form indicating "Contamination" shall be signed by a
1015 Professional Engineer or a Professional Geologist;
1016
- 1017 C) The IEMA Incident Number from the release report shall be
1018 recorded on the OSFM form; and
1019
- 1020 D) The box indicating "Bunker Tank" shall be marked on the OSFM
1021 form.
1022
- 1023 c) Disposal of Tanks
1024

- 1025 1) If a tank is to be scrapped as junk, it shall be retested for combustible or
1026 flammable vapors and, if necessary, rendered gas free.
1027
1028 2) If the tank last contained leaded gasoline, an unknown petroleum product
1029 or a hazardous substance, it may only be scrapped or junked, recertified,
1030 or discarded at a special waste or hazardous waste landfill as designated
1031 by Illinois EPA regulations. If tanks are being re-certified, the licensed
1032 contractor must give written notice to OSFM on the removal permit as to
1033 the intent to re-certify and re-use the tanks being removed. The re-certified
1034 tank must be re-installed within 6 months from removal.
1035
1036 3) Removed tanks may not be reused for any purpose other than those
1037 allowed by OSFM rules (proper disposal at an approved landfill, scrapped
1038 or junked after proper cleaning, or recertified pursuant to OSFM rules).
1039
1040 4) Compliance with this subsection (c) is the responsibility of the licensed
1041 contractor.
1042

1043 (Source: Amended at 48 Ill. Reg. _____, effective _____)
1044

1045 **Section 175.840 Abandonment-in-Place**
1046

- 1047 a) No tank or piping may be abandoned-in-place unless the permit applicant
1048 demonstrates eligibility for a waiver of the removal requirement for the tank
1049 and/or piping. The waiver shall be granted only in the following instances:
1050
1051 1) it would be infeasible to remove the UST due to loss of adjacent or
1052 subjacent support of nearby structures, such as railroad tracks, streets (as
1053 defined in Section 1-201 of the Illinois Vehicle Code [625 ILCS 5/1-201]),
1054 and other USTs;
1055
1056 2) removal is infeasible because of inaccessibility, as determined by OSFM;
1057 or
1058
1059 3) in unusual situations in which removal is infeasible due to other reasons,
1060 as determined by OSFM.
1061
1062 b) ~~In the event there is a delegation of authority to any municipality having a~~
1063 ~~population over 500,000 to enforce UST rules and regulations, pursuant to the~~
1064 ~~Gasoline Storage Act [430 ILCS 15/2] and subject to the terms of such agreement,~~
1065 ~~that municipality and its employees may, for USTs located within the jurisdiction~~
1066 ~~of that municipality, (i) directly issue abandonment in place permits, and assess~~
1067 ~~and collect abandonment in place permit fees for its own use which would~~

- 1068 ~~otherwise be assessed and collected by the OSFM under subsections~~
 1069 ~~175.300(a)(1) through (a)(10) and subsection (d) of this Section, (ii) request~~
 1070 ~~records of abandonment-in-place, and (iii) supervise the activities of subsection~~
 1071 ~~(d) of this Section; however, any criteria for abandonment-in-place shall be~~
 1072 ~~identical to those found in OSFM administrative rules at 41 Ill. Adm. Code 172,~~
 1073 ~~174, 175, 176 and 177.~~ Tanks, inside the jurisdiction of the City of Chicago,
 1074 which were abandoned-in-place prior to July 28, 1989 (the date of repeal of home
 1075 rule by the City over USTs) in accordance with City laws, regulations or
 1076 ordinances, need not be removed so long as a condition under subsection (a)
 1077 allowing abandonment continues to exist.
 1078
- 1079 c) Tanks abandoned prior to October 1, 1985. Tanks, outside the jurisdiction of
 1080 the City of Chicago, filled with inert material, as described in subsection
 1081 (d)(13), prior to October 1, 1985, need not be removed so long as a condition
 1082 under subsection (a) allowing abandonment exists; however, the owners shall
 1083 provide documentation of fill material and date of fill, upon request by OSFM.
 1084 The documentation shall be a receipt or a written statement from the licensed or
 1085 non-licensed contractor who did the fill, a statement from the inspector who
 1086 inspected the tank or a written statement from anyone designated by the State Fire
 1087 Marshal or the Director of the Division of Petroleum and Chemical Safety.
 1088
- 1089 d) For UST or piping abandonment-in-place, the following requirements and
 1090 procedures shall be followed:
 1091
- 1092 1) An OSFM permit under Section 175.300 shall be obtained and the work
 1093 scheduled with OSFM.
 - 1094
 - 1095 2) Except as otherwise provided in this Section, the procedures of API 1604
 1096 shall be followed for vapor freeing and inerting procedures.
 1097
 - 1098 3) All health and safety monitoring equipment shall be maintained according to
 1099 manufacturer's specifications.
 1100
 - 1101 4) An exclusion zone shall be established, within which smoking is
 1102 prohibited. The exclusion zone shall include all hazardous (classified)
 1103 locations/areas where work related to abandonment-in-place is being
 1104 conducted. The use of spark producing/non-explosion proof equipment is
 1105 prohibited in the vapor hazard area prior to removal of product and
 1106 sludges and attaining the LEL/oxygen levels required in subsection (d)(9).
 1107
 - 1108 5) Upon excavating to the top of the tank, on-site personnel shall drain
 1109 product into approved drums or other approved receptacles. Any
 1110 associated piping to be abandoned-in-place shall be properly secured or

- 1111 capped. Any piping removal shall adhere to Section 175.830. Further
 1112 excavation below the top of the tank is not allowed until STSS is present
 1113 and has verified that tank conditions meet the LEL/oxygen criteria of
 1114 subsection (d)(9).
 1115
- 1116 6) All liquids shall be removed from the tank using explosion-proof pumps
 1117 or hand pumps.
 1118
- 1119 7) The tank atmosphere and the excavation area shall be regularly monitored
 1120 with a combustible gas indicator for flammable or combustible vapor
 1121 concentration. Monitoring the UST shall be done at 3 levels in the tank:
 1122 top, middle and bottom. A confined space entry permit shall be obtained
 1123 prior to tank entry and SDS must be on site.
 1124
- 1125 8) Vapor freeing shall be done in accordance with API 1604, except that dry
 1126 ice shall not be allowed as a method of inerting tanks. When vapor freeing
 1127 the tank with compressed air or using inert gases under pressure, all
 1128 devices shall be bonded to the tank and the tank shall be grounded to a
 1129 separate ground. When using inert gases, the cylinder shall be equipped
 1130 with a pressure gauge so that no more than 5 psi can be discharged into the
 1131 tank during vapor freeing procedures. To ensure and maintain proper
 1132 grounding and bonding, the connections shall be tested by the licensed
 1133 contractor for continuity. This testing shall be done with equipment
 1134 designed for continuity testing. When vapor freeing a tank, plastic pipes
 1135 shall not be allowed as a vent tube on eductors.
 1136
- 1137 9) The tank shall be regularly monitored to insure that explosive conditions
 1138 do not exist. A maximum of 5% of the LEL, or 5% or less oxygen
 1139 concentration, shall be attained before the tank is considered safe for
 1140 abandonment.
 1141
- 1142 10) An STSS shall be on site before any tanks and piping are abandoned in
 1143 place or before any hot work can proceed.
 1144
- 1145 11) A sufficient number of holes or openings shall be made in the tank for
 1146 abandonment-in-place procedures if existing openings are not adequate.
 1147
- 1148 12) Cleaning procedures shall be in accordance with API 2015, incorporated
 1149 by reference in 41 Ill. Adm. Code 174.210. Protective respiratory
 1150 equipment for tank cleaning personnel shall be the type that provides
 1151 positive air pressure to a full-face mask throughout the breathing cycle, in
 1152 accordance with API 2015.
 1153

- 1154 13) After cleaning, on-site personnel shall proceed to introduce an OSFM-
1155 approved, inert material through openings in the top of the tank to
1156 minimize any surface settling subsequent to abandonment of the tank in
1157 place. Allowed inert material shall be limited to sand, gravel, clay,
1158 bentonite or inert material mixed with portland cement to increase
1159 flowability. The portland cement concentration may not exceed 50 lbs. per
1160 cubic yard of mixed material. Tripolymer foam may only be used on
1161 compartment tanks where at least 1 compartment is not being abandoned
1162 in place and will remain in use. Any other materials must be approved by
1163 OSFM during the permit process. The procedure for filling shall be in
1164 accordance with API 1604.
1165
- 1166 14) After the tank is filled with inert material, all tank openings shall be
1167 plugged or capped unless it was necessary to cut open the tank top. The
1168 vent line shall be disconnected, capped and removed.
1169
- 1170 15) Every abandonment-in-place requires a site assessment (see 41 Ill. Adm.
1171 Code 176.330).
1172
- 1173 16) When a UST is abandoned-in-place, the owner of the UST shall keep a
1174 permanent record of the UST location, the date of abandonment-in-place
1175 and the procedure used for abandonment-in-place.
1176
- 1177 e) When a UST is allowed to be abandoned-in-place, as specified in this Section, the
1178 abandoned-in-place UST shall be removed when the condition for issuing the
1179 abandonment permit no longer exists. The removal procedures shall be followed
1180 and a removal permit is required.
1181
- 1182 f) Compliance with subsections (d)(1) through (d)(14) is the responsibility of the
1183 licensed contractor.
1184

1185 (Source: Amended at 48 Ill. Reg. _____, effective _____)
1186

1187 **Section 175.APPENDIX A UST Activity that Cannot Proceed Without an OSFM**
 1188 **Inspector on Site**

1189
 1190 In addition to obtaining a permit pursuant to 41 Ill. Adm. Code 175.300, the UST activities listed
 1191 in this Appendix A will require that the inspection be scheduled with OSFM as an OSI, meaning
 1192 under circumstances where the work cannot proceed in the absence of having an STSS on site.
 1193 (See Section 175.320, regarding scheduling of UST activity.) Proceeding without completion of
 1194 the required OSFM inspection is a violation of OSFM rules.
 1195

Removal of a UST or UST system, or removal of <u>over 20 feet or 50% of the total piping run or an entire underground pipe run</u>
Abandonment-in-place, tanks or piping
UST hot work/tank entry (if cutting or penetration of tank shell or work capable of providing a source of ignition or heat is involved) (See definition of "hot work" at 41 Ill. Adm. Code 174.100)
Lining and lining inspection
Installation of a UST or UST system, or installation of <u>over 20 feet or 50% of the total piping run or an entire underground pipe run</u> (See Section 175.320(c))

1196
 1197 (Source: Amended at 48 Ill. Reg. _____, effective _____)
 1198

1199 **Section 175.APPENDIX B The Type of OSFM Permit Required for Specific Permitted**
 1200 **UST Activities**

1201
 1202 Pursuant to Section 175.300 and 41 Ill. Adm. Code 174.440 and 174.450, the UST activities
 1203 listed in this Appendix B will require the kinds of permits listed in this chart. A UST contractor
 1204 portal for the on-line submission of permit applications and the scheduling of permitted work can
 1205 be found at <https://webapps.sfm.illinois.gov/USTPortal/Home/Login?ReturnUrl=%2fUSTPortal>.
 1206

<u>Type of UST Activity</u>	<u>Permit Required</u>
Installation of a complete UST with all components, or installation of just the tank	Installation permit and motor fuel dispensing permit pursuant to Section 175.200
Installation of any portion of a UST (except corrosion protection or lining)	Upgrade permit and motor fuel dispensing permit pursuant to Section 175.200 as may be applicable
Removal of a UST or UST system, or removal of over 20 feet or 50% of the total piping run or an entire underground pipe run	Removal permit
Abandonment-in-place of any tank or piping	Abandonment-in-place permit
UST repair to make an existing UST part functional, but not including lining or corrosion protection	Upgrade permit
Tank lining or tank lining inspections	Lining or interior lining inspection permit
Emergency repairs (excluding corrosion protection)	Upgrade permit (see the procedures of Section 175.710)
Repair or install cathodic protection or corrosion protection, including on flex connectors	Cathodic protection permit
Manway installation (no separate upgrade or entry permit for a manway is required where the original lining permit or lining inspection permit includes the installation of a manway)	Hot work/tank entry permit
UST activity requiring the cutting or penetration of the tank shell in any way (no separate hot work permit required where a lining or lining inspection permit is being issued)	Hot work/tank entry permit
Installation, upgrade or removal of leak detection systems	Upgrade permit
New spill containment (except that replacement of spill containment is a like-for-like replacement that requires only notification to OSFM pursuant to Section 175.300)	Upgrade permit

Installation or replacement of a remote fill	Upgrade permit
New or replaced overflow prevention equipment (except that replacement of drop tube valves are like-for-like replacements that require only notification to OSFM pursuant to Section 175.300)	Upgrade permit
Installation or replacement of dispensers where piping or any other transitional components at or below the shear valve (including the shear valve) are replaced at the same time	Upgrade permit
Installation or replacement of an ATG unit (except that replacement of ATG probes are like-for-like replacements that require only notification to OSFM pursuant to Section 175.300)	Upgrade permit
Installation or replacement of a flex connector (only)	Upgrade permit
Installation of wristband anodes or spike anodes on an existing flex connector (only)	Cathodic protection permit
Installation or replacement of a flex connector <u>and</u> wristband anodes or spike anodes on the flex connector (only)	Cathodic protection permit (shall also be licensed in the retrofitting/installation module)
Connecting a new or existing bulk load-out to a new or existing UST at a motor fuel dispensing facility	Upgrade permit (Installation permit if an entire UST is being installed)
Construction of a building or structure where loading or unloading or dispensing operations will occur	Motor fuel dispensing permit pursuant to Section 175.200
Site for the mobile fueling of commercial vehicle fleets (pursuant to Section 2(1)(d)(C) of the Gasoline Storage Act [430 ILCS 15/2(1)(d)(C)])	Mobile fueling site permit (pursuant to 41 Ill. Adm. Code 174.440 and 174.450)
Tank vehicle to be used for the mobile fueling of commercial vehicle fleets (pursuant to Section 2(1)(d)(C) of the Gasoline Storage Act [430 ILCS 15/2(1)(d)(C)])	Mobile fueling vehicle permit (pursuant to 41 Ill. Adm. Code 174.440 and 174.450)
Person, company, or other entity proposing to conduct mobile fueling using tank vehicles to be used for the mobile fueling of commercial vehicle fleets (pursuant to Section 2(1)(d)(C) of the Gasoline Storage Act [430 ILCS 15/2(1)(d)(C)])	Mobile fueling contractor permit (pursuant to 41 Ill. Adm. Code 174.440 and 174.450)

1208

(Source: Amended at 48 Ill. Reg. _____, effective _____)