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Template Name 60.5420a(b) Annual Report (Spreadsheet Template)

CitationID 60.5420a(b)

Template Version v1.00

Last Updated Date

"40 CFR Part 60, Subpart OOOOa Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - §60.5420a Annual Report Spreadsheet Template"

"Instructions for Spreadsheet Template

Purpose:

This spreadsheet template was designed by the U.S. EPA to facilitate annual reporting for Oil and Gas Facilities under 40 CFR part 60, subpart OOOOa. CEDRI is accessed through the EPA's Central Data Exchange (https://cdx.epa.gov)

Electronic reporting:

Electronic submission of annual reports through the EPA's Compliance and Emissions Data Reporting (CEDRI) is required under §60.5420a(b).

The CEDRI spreadsheet template upload feature allows you to submit data in a single report for a single facility or multiple facilities, as well as mulitple sites, using this EPA provided Excel workbook. Data for the site(s) must be entered into the worksheet labeled ""Site Information"" in this Excel workbook. Each row in the ""Site Information"" worksheet includes the data for a single site. The Site Record No. will be used to match the information on each tab to the appropriate site.

IMPORTANT: For each site/facility record found in the ""Site Information"" worksheet, you may reference a single file attachment that includes all information for each citation found in the workbook or provide individual file names for each individual citation record. In the examples provided in the workbook, we provide both as an example.

The spreadsheet must be uploaded into CEDRI as a single ZIP file, which must include this Excel workbook and any related attachments that were referenced in any of the worksheets found in the workbook (e.g., the Certification file found in the ""Site Information"" worksheet).

Note: If you are uploading file attachments for your report, the uploaded files may be in any format (e.g., zip, docx, PDF). If you would like to include an Excel file(s) as an attachment, you must first zip the excel file(s) into a separate ZIP file to the master ZIP file that will be uploaded into CEDRI.

Once all data have been entered in the worksheet, combine this Excel workbook and all attachment files (including any ZIP file containing separate excel file(s), if applicable) into a single ZIP file for upload to CEDRI.

Please ensure your report includes all of the required data elements found in the listed citations below for this spreadsheet upload submission.

"

You must submit annual reports containing the information specified in paragraphs (b)(1) through (8) and (12) of this section. You must submit annual reports following the procedure specified in paragraph (b)(11) of this section.

"§60.5420a What are my notification, reporting, and recordkeeping requirements?

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(b) Reporting requirements. You must submit annual reports containing the information specified in paragraphs (b)(1) through (8) and (12) of this section and performance test reports as specified in paragraph (b)(9) or (10) of this section, if applicable, except as provided in paragraph (b)(13) of this section. You must submit annual reports following the procedure specified in paragraph (b)(11) of this section. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to §60.5410a. Subsequent annual reports are due no later than same date each year as the initial annual report. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities provided the report contains all of the information required as specified in paragraphs (b)(1) through (8) of this section, except as provided in paragraph (b)(13) of this section. Annual reports may coincide with title V reports as long as all the required elements of the annual report are included. You may arrange with the Administrator a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period.

(1) The general information specified in paragraphs (b)(1)(i) through (iv) of this section for all reports.

(i) The company name, facility site name associated with the affected facility, US Well ID or US Well ID associated with the affected facility, if applicable, and address of the affected facility. If an address is not available for the site, include a description of the site location and provide the latitude and longitude coordinates of the site in decimal degrees to an accuracy and precision of five (5) decimals of a degree using the North American Datum of 1983.

(ii) An identification of each affected facility being included in the annual report.

(iii) Beginning and ending dates of the reporting period.

(iv) A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(2) For each well affected facility, the information in paragraphs (b)(2)(i) through (iii) of this section.

(i) Records of each well completion operation as specified in paragraphs (c)(1)(i) through (iv) and (vi) of this section, if applicable, for each well affected facility conducted during the reporting period. In lieu of submitting the records specified in paragraph (c)(1)(i) through (iv) of this section, the owner or operator may submit a list of the well completions with hydraulic fracturing completed during the reporting period and the records required by paragraph (c)(1)(v) of this section for each well completion.

(ii) Records of deviations specified in paragraph (c)(1)(ii) of this section that occurred during the reporting period.

(iii) Records specified in paragraph (c)(1)(vii) of this section, if applicable, that support a determination under 60.5432a that the well affected facility is a low pressure well as defined in 60.5430a.

(3) For each centrifugal compressor affected facility, the information specified in paragraphs (b)(3)(i) through (iv) of this section.

(i) An identification of each centrifugal compressor using a wet seal system constructed, modified or reconstructed during the reporting period.

(ii) Records of deviations specified in paragraph (c)(2) of this section that occurred during the reporting period.

(iii) If required to comply with §60.5380a(a)(2), the records specified in paragraphs (c)(6) through (11) of this section.

(iv) If complying with §60.5380a(a)(1) with a control device tested under §60.5413a(d) which meets the criteria in §60.5413a(d)(11) and §60.5413a(e), records specified in paragraph (c)(2)(i) through (c)(2)(vii) of this section for each centrifugal compressor using a wet seal system constructed, modified or reconstructed during the reporting period.

(4) For each reciprocating compressor affected facility, the information specified in paragraphs (b)(4)(i) and (ii) of this section.

(i) The cumulative number of hours of operation or the number of months since initial startup or since the previous reciprocating compressor rod packing replacement, whichever is later. Alternatively, a statement that emissions from the rod packing are being routed to a process through a closed vent system under negative pressure.

(ii) Records of deviations specified in paragraph (c)(3)(iii) of this section that occurred during the reporting period.

(5) For each pneumatic controller affected facility, the information specified in paragraphs (b)(5)(i) through (iii) of this section.

(i) An identification of each pneumatic controller constructed, modified or reconstructed during the reporting period, including the identification information specified in §60.5390a(b)(2) or (c)(2).

(ii) If applicable, documentation that the use of pneumatic controller affected facilities with a natural gas bleed rate greater than 6 standard cubic feet per hour are required and the reasons why.

(iii) Records of deviations specified in paragraph (c)(4)(v) of this section that occurred during the reporting period.

(6) For each storage vessel affected facility, the information in paragraphs (b)(6)(i) through (vii) of this section.

(i) An identification, including the location, of each storage vessel affected facility for which construction, modification or reconstruction commenced during the reporting period. The location of the storage vessel shall be in latitude and longitude coordinates in decimal degrees to an accuracy and precision of five (5) decimals of a degree using the North American Datum of 1983.

(ii) Documentation of the VOC emission rate determination according to §60.5365a(e) for each storage vessel that became an affected facility during the reporting period or is returned to service during the reporting period.

(iii) Records of deviations specified in paragraph (c)(5)(iii) of this section that occurred during the reporting period.

(iv) A statement that you have met the requirements specified in §60.5410a(h)(2) and (3).

(v) You must identify each storage vessel affected facility that is removed from

service during the reporting period as specified in §60.5395a(c)(1)(ii), including the date the storage vessel affected facility was removed from service.

(vi) You must identify each storage vessel affected facility returned to service during the reporting period as specified in §60.5395a(c)(3), including the date the storage vessel affected facility was returned to service.

(vii) If complying with §60.5395a(a)(2) with a control device tested under §60.5413a(d) which meets the criteria in §60.5413a(d)(11) and §60.5413a(e), records specified in paragraphs (c)(5)(vi)(A) through (F) of this section for each storage vessel constructed, modified, reconstructed or returned to service during the reporting period.

(7) For the collection of fugitive emissions components at each well site and the collection of fugitive emissions components at each compressor station within the company-defined area, the records of each monitoring survey including the information specified in paragraphs (b)(7)(i) through (xii) of this section. For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must include in your annual report the fact that a monitoring survey was waived and the calendar months that make up the quarterly monitoring period for which the monitoring survey was waived.

(i) Date of the survey.

(ii) Beginning and end time of the survey.

(iii) Name of operator(s) performing survey. If the survey is performed by optical gas imaging, you must note the training and experience of the operator.

(iv) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.

(v) Monitoring instrument used.

(vi) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.

(vii) Number and type of components for which fugitive emissions were detected.

(viii) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).

(ix) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.

(x) The date of successful repair of the fugitive emissions component.

(xi) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.

(xii) Type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

(8) For each pneumatic pump affected facility, the information specified in paragraphs (b)(8)(i) through (iii) of this section.

(i) For each pneumatic pump that is constructed, modified or reconstructed during the reporting period, you must provide certification that the pneumatic pump meets one of the conditions described in paragraphs (b)(8)(i)(A), (B) or (C) of this section.

(A) No control device or process is available on site.

(B) A control device or process is available on site and the owner or operator has determined in accordance with §60.5393a(b)(5) that it is technically infeasible to capture and route the emissions to the control device or process.

(C) Emissions from the pneumatic pump are routed to a control device or process. If the control device is designed to achieve less than 95 percent emissions reduction, specify the percent emissions reductions the control device is designed to achieve.

(ii) For any pneumatic pump affected facility which has been previously reported as required under paragraph (b)(8)(i) of this section and for which a change in the

reported condition has occurred during the reporting period, provide the identification of the pneumatic pump affected facility and the date it was previously reported and a certification that the pneumatic pump meets one of the conditions described in paragraphs (b)(8)(ii)(A), (B) or (C) or (D) of this section.

(A) A control device has been added to the location and the pneumatic pump now reports according to paragraph (b)(8)(i)(C) of this section.

(B) A control device has been added to the location and the pneumatic pump affected facility now reports according to paragraph (b)(8)(i)(B) of this section.

(C) A control device or process has been removed from the location or otherwise is no longer available and the pneumatic pump affected facility now report according to paragraph (b)(8)(i)(A) of this section.

(D) A control device or process has been removed from the location or is otherwise no longer available and the owner or operator has determined in accordance with §60.5393a(b)(5) through an engineering evaluation that it is technically infeasible to capture and route the emissions to another control device or process.

(iii) Records of deviations specified in paragraph (c)(16)(ii) of this section that occurred during the reporting period.

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(12) You must submit the certification signed by the qualified professional engineer according to §60.5411a(d) for each closed vent system routing to a control device or process.

(11) You must submit reports to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX (https://cdx.epa.gov/).) You must use the appropriate electronic report in CEDRI for this subpart or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the CEDRI Web site (https://www3.epa.gov/ttn/chief/cedri/). If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in §60.4. Once the form has been available in CEDRI for at least 90 calendar days, you must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the deadlines specified in this subpart, regardless of the method in which the reports are submitted.

"

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"40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report"

"For each affected facility, an owner or operator must include the information specified in paragraphs (b)(1)(i) through (iv) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

SITE INFORMATION ALTERNATIVE ADDRESS INFORMATION (IF NO PHYSICAL ADDRESS AVAILABLE FOR SITE *) REPORTING INFORMATION PE Certification ADDITIONAL INFORMATION

"Facility Record No. *

(Field value will automatically generate if a value is not entered.)" Company Name * (§60.5420a(b)(1)(i)) Facility Site Name * (§60.5420a(b)(1)(i)) "US Well ID or US Well ID Associated with the Affected Facility, if applicable. * (§60.5420a(b)(1)(i))" Address of Affected Facility * (§60.5420a(b)(1)(i)) Address 2 City * County * State Abbreviation * Zip Code * Responsible Agency Facility ID (State Facility Identifier) "Description of Site Location

(§60.5420a(b)(1)(i))" "Latitude of the Site (decimal degrees to 5 decimals using the North American Datum of 1983)

(§60.5420a(b)(1)(i))" Longitude of the Site (decimal degrees to 5 decimals using the North American Datum of 1983) (§60.5420a(b)(1)(i)) Beginning Date of Reporting Period.* (§60.5420a(b)(1)(iii)) Ending Date of Reporting Period.* (§60.5420a(b)(1)(iii)) "Please provide the file name that contains the certification signed by a qualified professional engineer for each closed vent system routing to a control device or process. *

(§60.5420a(b)(12))

Please provide only one file per record." Please enter any additional information. Enter associated file name reference.

XML Tag: FacilityName SiteName WellId AddressLine1 AddressLine2 CityName CountyName StateName ZipCode StateFacId SiteDescription SiteLatitude SiteLongitude PeriodStartDate PeriodEndDate PeCertFile AddInfo AddFile

e.g.: ABC Company e.g.: XYZ Compressor Station e.g.: 12-345-67890-12 e.g.: 123 Main Street e.g.: Suite 100 e.g.: Brooklyn e.g.: Kings County e.g.: NY e.g.: 11221 e.g.: 7 miles NE of the intersection of Hwy 123 and Hwy 456 e.g.:

34.12345 e.g.: -101.12345 e.g.: 01/01/2016 e.g.: 06/30/2016 e.g.: Certification.pdf or XYZCompressorStation.pdf e.g.: addlinfo.zip or XYZCompressorStation.pdf

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"40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report

"

"For each well affected facility, an owner or operator must include the information specified in paragraphs (b)(2)(i) through (iii) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

§60.5432a Low Pressure Wells All Well Completions Well Affected Facilities Required to Comply with §60.5375a(a) and §60.5375a(f)
"Exceptions Under §60.5375a(a)(3) - Technically Infeasible to Route to the Gas Flow Line or Collection System, Re-inject into a Well, Use as an Onsite Fuel Source, or Use for Another Useful Purpose Served By a Purchased Fuel or Raw Material"
"Well Affected Facilities Meeting the Criteria of §60.5375a(a)(1)(iii)(A) - Not Hydraulically Fractured/Refractured with Liquids or Do Not Generate Condensate, Intermediate Hydrocarbon Liquids, or Produced Water (No Liquid Collection System or Seperator Onsite)" Well Affected Facilities Required to Comply with Both §60.5375a(a)(1) and (3) Using a Digital Photo in lieu of Records Required by §60.5420a(c)(1)(i) through (iv) Well Affected Facilities Meeting the Criteria of §60.5375a(g) - <300 scf of Gas per Stock Tank Barrel of Oil Produced

"Facility Record No. *

(Select from dropdown list - may need to scroll up)" United States Well Number* (§60.5420a(b)(1)(ii)) "Records of deviations where well completion operations with hydraulic fracturing were not performed in compliance with the requirements specified in § 60.5375a. *

(§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(ii))" "Please provide the file name that contains the Record of Determination and Supporting Inputs and Calculations *

(§60.5420a(b)(2)(iii) and §60.5420a(c)(1)(vii))

Please provide only one file per record." "Well Completion ID *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(i))" "Well Location *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Date of Onset of Flowback Following Hydraulic Fracturing or Refracturing *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Time of Onset of Flowback Following Hydraulic Fracturing or Refracturing *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Date of Each Attempt to Direct Flowback to a Separator *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Time of Each Attempt to Direct Flowback to a Separator *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Date of Each Occurrence of Returning to the Initial Flowback Stage *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Time of Each Occurrence of Returning to the Initial Flowback Stage *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Date Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Time Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Duration of Flowback in Hours *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Duration of Recovery in Hours *

(Not Required for Wells Complying with §60.5375a(f))

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A))" "Disposition of Recovery *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B)) " "Duration of Combustion in Hours *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Duration of Venting in Hours *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Reason for Venting in lieu of Capture or Combustion *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Well Location *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv))" "Specific Exception Claimed *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv))" "Starting Date for the Period the Well Operated Under the Exception *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv))" "Ending Date for the Period the Well Operated Under the Exception *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv))" "Why the Well Meets the Claimed Exception *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iv))" "Name of Nearest Gathering Line *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Location of Nearest Gathering Line *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Technical Considerations Preventing Routing to this Line *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Capture, Reinjection, and Reuse Technologies Considered *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Aspects of Gas or Equipment Preventing Use of Recovered Gas as a Fuel Onsite *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Technical Considerations Preventing Use of Recovered Gas for Other Useful Purpose *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Additional Reasons for Technical Infeasibility *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A)-(B))" "Well Location*

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Date of Onset of Flowback Following Hydraulic Fracturing or Refracturing *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Time of Onset of Flowback Following Hydraulic Fracturing or Refracturing *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Date Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Time Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Duration of Flowback in Hours *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Duration of Combustion in Hours *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Duration of Venting in Hours *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Reason for Venting in lieu of Capture or Combustion *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(A) and (C))" "Does well still meet the conditions of §60.5375a(1)(iii)(A)? *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))" "If applicable

Date Well Completion Operation Stopped * ((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))" "If applicable:

Time Well Completion Operation Stopped * ((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))" "If applicable:

Date Separator Installed *

((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))" "If applicable:

Time Separator Installed *

((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(2))" "Are there liquids collection at the well site?

Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *

((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(iii)(C)(3))" "Please provide the file name that contains the Digital Photograph with Date Taken and Latitude and Longitude Imbedded (or with Visible GPS), Showing Required Equipment

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(v))

Please provide only one file per record." "Well Location*

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(vi)(B))" "Please provide the file name that contains the Record of Analysis Performed to Claim Well Meets §60.5375a(g), Including GOR Values for Established Leases and Data from Wells in the Same Basin and Field *

(§60.5420a(b)(2)(i) and §60.5420a(c)(1)(vi)(A))

Please provide only one file per record." "Does the well meet the requriements of §60.5375a(g)?

Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *

((§60.5420a(b)(2)(i) and §60.5420a(c)(1)(vi)(C))"

XML Tag: WellId DeviationDesc DeterminationFile WellCompletionId AffWellLocation AffOnsetDate AffOnsetTime AffAttemptDate AffAttemptTime AffOccurenceDate AffOccurenceTime AffShutInDate AffShutInTime AffFlowbackHrs AffRecoveryHrs AffRecoveryDesc AffCombustionHrs AffVentingHrs AffVentingReason ExcWellLocation ExcExceptionClaimed ExcPeriodStartDate ExcPeriodEndDate ExcExceptionDesc ExcGlName ExcGlLocation ExcGlPreventDesc ExcTechConsidered ExcGasAspect ExcPreventReuse ExcAddReason LiqWellLocation LiqOnsetDate LiqOnsetTime LiqShutInDate LiqShutInTime LiqFlowbackHrs LiqCombustionHrs LiqVentingHrs LiqVentingReason LiqRegConditionFlag LiqStopDate LiqStopTime LiqSeparatorDate LiqSeparatorTime LiqCollectionFlag WellFile GasWellLocation GasAnalysisFile GasRequirementFlag

e.g.: 12-345-67890-12 "e.g.: On October 12, 2016, a separator was not onsite for the first 3 hours of the flowback period." e.g.: lowpressure.pdf or XYZCompressorStation.pdf e.g.: Completion ABC "e.g.: 34.12345 latitude,

-101.12345 longitude" e.g.: 10/16/16 e.g.: 10 a.m. e.g.: 10/16/16 e.g.: 10 a.m. e.g.: 10/16/16 e.g.: 10 a.m. e.g.: 10/16/16 e.g.: 10 a.m. e.g.: 5 e.g.: 5 e.g.: Used as onsite fuel e.g.: 5 e.g.: 5 e.g: No onsite storage or combustion unit was available at the time of completion. "e.g.: 34.12345 latitude,

-101.12345 longitude" e.g.: Technical infeasibility under 60.5375a(a)(3) e.g.: 10/16/2016 e.g.: 10/18/2016 "e.g.: As further described in this report, technical issues prevented the use of the gas for useful purposes." e.g.: ABC Line "e.g.:

100 miles away at 34.12345 latitude, -101.12345 longitude" e.g.: right of use e.g.: on-site generators e.g.: gas quality e.g. gas quality e.g. well damage or clean-up "e.g.: 34.12345 latitude,

-101.12345 longitude" e.g.: 10/16/16 e.g.: 10 a.m. e.g.: 10/16/16 e.g.: 10 a.m. e.g.: 5 e.g.: 5 e.g.: 5 e.g: No onsite storage or combustion unit was available at the time of completion. e.g.: Yes e.g.: 10/16/16 e.g.: 10 a.m. e.g.: 10/16/16 e.g.: 10 a.m. e.g.: No e.g.: completion1.pdf or XYZCompressorStation.pdf "e.g.: 34.12345 latitude,

-101.12345 longitude" e.g.: GORcalcs.pdf or XYZCompressorStation.pdf e.g.: Yes

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"

"For each centrifugal compressor affected facility, an owner or operator must include the information specified in paragraphs (b)(3)(i) through (iv) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

Centrifugal Compressors Required to Comply with §60.5380a(a)(2) - Cover and Closed Vent System Requirements Centrifugal Compressors with Carbon Adsorption Centrifugal Compressors Subject to Control Device Requirements of §60.5412a(a)-(c) "Centrifugal Compressors Using a Wet Seal System Constructed, Modified, or Reconstructed During Reporting Period with Control Device Tested Under §60.5413a(d)"

"Facility Record No. *

(Select from dropdown list - may need to scroll up)" "Compressor ID *

(§60.5420a(b)(1)(ii))" "For centrifugal compressors using a wet seal system, was the compressor constructed, modified or reconstructed during the reporting period? *

(§60.5420a(b)(3)(i))" "Deviations where the centrifugal compressor was not operated in compliance with requirements *

(§60.5420a(b)(3)(ii) and §60.5420a(c)(2))" "Record of Each Closed Vent System Inspection *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(6))" "Record of Each Cover Inspection *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(7))" "If you are subject to the bypass requirements of §60.5416a(a)(4) and you monitor the bypass with a flow indicator, a record of each time the alarm is sounded. *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(8))" "If you are subject to the bypass requirements of §60.5416a(a)(4) and you use a secured valve, a record of each monthly inspection. *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(8))" "If you are subject to the bypass requirements of §60.5416a(a)(4) and you use a lock-and-key valve, a record of each time the key is checked out. *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(8))" "Record of No Detectable Emissions Monitoring Conducted According to §60.5416a(b) *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(9))" "Records of the Schedule for Carbon Replacement *

(determined by design analysis)

(§60.5420a(b)(3)(iii) and §60.5420a(c)(10))" "Records of Each Carbon Replacement *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(10))" "Minimum/Maximum Operating Parameter Value *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(11))" "Please provide the file name that contains the Continuous Parameter Monitoring System Data *

(§60.5420a(b)(3)(iii) and §60.5420a(c)(11))

Please provide the file name that contains." "Please provide the file name that contains the Calculated Averages of Continuous Parameter Monitoring System Data * (§60.5420a(b)(3)(iii) and §60.5420a(c)(11))

Please provide the file name that contains." "Please provide the file name that contains the Results of All Compliance Calculations * (§60.5420a(b)(3)(iii) and §60.5420a(c)(11))

Please provide the file name that contains." "Please provide the file name that contains the Results of All Inspections * (§60.5420a(b)(3)(iii) and §60.5420a(c)(11))

Please provide the file name that contains." "Make of Purchased Device *

(§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(i))" "Model of Purchased Device *

(§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(i))" Serial Number of Purchased Device * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(i)) Date of Purchase (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(ii)) "Please provide the file name that contains the Copy of Purchase Order (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iii))

Please provide the file name that contains." Latitude of Centrifugal Compressor (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv)) Longitude of Centrifugal Compressor (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv)) Latitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv)) Longitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(iv)) "As an Alternative to Latitude and Longitude, please provide the file name that contains the Digital Photograph of Device either with Imbedded Latituded and Longitude or Visible GPS

(§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vii))

Please provide the file name that contains.

" Inlet Gas Flow Rate * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(v)) "Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(A))

Please provide the file name that contains." "Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15-Minute Period * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(B))

Please provide the file name that contains." " Please provide the file name that contains the Records of Maintenance and Repair Log * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(C))

Please provide the file name that contains." "Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity * (§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(D))

Please provide the file name that contains." "Please provide the file name that contains the Records of Manufacturer's Written Operating Instructions, Procedures and Maintenance Schedule *

(§60.5420a(b)(3)(iv) and §60.5420a(c)(2)(vi)(E))

Please provide the file name that contains."

XML Tag: CompressorId CompressorConstruct CompressorDeviation VentSystemInspection VentCoverInspection VentAlarmRecord VentMonthInspection VentKeyRecord VentDetectEmission CarbonReplaceSch CarbonReplaceRecord CtrlOpParameter CtrlParameterFile CtrlAveragesFile CtrlComplianceFile CtrlInspectionFile WetDeviceMake WetDeviceMake WetDeviceId WetPurchaseDate WetPurchaseFile WetCompLatitude WetCompLongitude WetCtrlLatitude WetCtrlLongitude WetLocationFile WetFlowRate WetFlameFile WetEmissionFile WetMaintFile WetVisibleFile WetInstructionFile

e.g.: Comp-12b e.g.: modified "e.g.: On October 12, 2016, the pilot flame was not functioning on the combustion unit controlling the compressor." e.g.: Annual inspection conducted on 12/16/16. No defects observed. No detectable emissions observed. e.g.: Annual inspection conducted on 12/16/16. No defects observed. "e.g.: On 4/5/17, the bypass alarm sounded for 2 mintues." e.g.: Monthly inspection performed 4/15/17. Valve was maintained in the non-diverting position. Vent stream was not diverted through the bypass. e.g.: The key was not checked out during the annual reporting period. e.g.: Annual inspection conducted on 12/16/16. The highest reading using the FID was 300 ppmv. e.g.: Carbon must be replaced every 2 years. e.g.: Carbon was not replaced during the annual reporting period. e.g.: Minimum temperature differential across catalytic oxidizer bed of 20°F. e.g.: CPMS_Comp-12b.pdf or XYZCompressorStation.pdf e.g.: CPMSAvg_Comp-12b.pdf or XYZCompressorStation.pdf e.g.: ComplRslts_Comp-12b.pdf or XYZCompressorStation.pdf e.g.: InspectRslts_Comp-12b.pdf or XYZCompressorStation.pdf e.g.: Incinerator Guy e.g.: 400 Combustor e.g.: 123B3D392 e.g.: 12/10/16 e.g.: purchase_order.pdf or XYZCompressorStation.pdf e.g.: 34.12345 e.g.: -101.12345 e.g.: 34.12340 e.g.: -101.12340 e.g.: 400_combustor.pdf or XYZCompressorStation.pdf e.g.: 3000 scfh e.g.: pilotflame.pdf or XYZCompressorStation.pdf e.g.: noemissions.pdf or XYZCompressorStation.pdf e.g.: maintainlog.pdf or XYZCompressorStation.pdf e.g.: emistest.pdf or XYZCompressorStation.pdf e.g.: manufinsruct.pdf or XYZCompressorStation.pdf

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"40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report

"

"For each reciprocating compressor affected facility, an owner or operator must include the information specified in paragraphs (b)(4)(i) and (ii) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

"Facility Record No. *

(Select from dropdown list - may need to scroll up)" "Compressor ID *

(§60.5420a(b)(1)(ii))" Are emissions from the rod packing unit being routed to a process through a closed vent system under negative pressure? * (§60.5420a(b)(4)(i)) "If emissions are not routed to a process through a closed vent system under negative pressure, what are the cumulative number of hours or months of operation since initial startup or the previous rod packing replacement (whichever is later)? *

(§60.5420a(b)(4)(i))" "Units of Time Measurement *

(§60.5420a(b)(4)(i))" Deviations where the reciprocating compressor was not operated in compliance with requirements* (§60.5420(b)(4)(ii) and §60.5420a(c)(3)(iii))

XML Tag: CompressorId RodEmissionsFlag OpCumTime OpCumUnit CompressorDeviation

e.g.: Comp-12b e.g.: no e.g.: 2 e.g.: months e.g.: Rod packing replacement exceeded 36 months. Replacement occurred after 37 months.

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"40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report

"

"For each pneumatic controller affected facility, an owner or operator must include the information specified in paragraphs (b)(5)(i) through (iii) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

Pneumatic Controllers with a Natural Gas Bleed Rate Greater than 6 scfh

"Facility Record No. *

(Select from dropdown list - may need to scroll up)" "Pneumatic Controller Identification *

(§60.5420a(b)(1)(ii), §60.5420a(b)(5)(i), and §60.5390a(b)(2) or §60.5390a(c)(2))" "Was the pneumatic controller constructed, modified or reconstructed during the reporting period? *

(§60.5420a(b)(5)(i))" "Month of Installation, Reconstruction, or Modification*

(§60.5420a(b)(5)(i) and §60.5390a(b)(2) or §60.5390a(c)(2))" "Year of Installation, Reconstruction, or Modification*

(§60.5420a(b)(5)(i) and §60.5390a(b)(2) or §60.5390a(c)(2))" "Documentation that Use of a Pneumatic Controller with a Natural Gas Bleed Rate Greater than 6 Standard Cubic Feet per Hour is required *

(§60.5420a(b)(5)(ii))" "Reasons Why *

(§60.5420a(b)(5)(ii))" "Records of deviations where the pneumatic controller was not operated in compliance with requirements*

(§60.5420a(b)(5)(iii) and §60.5420a(c)(4)(v))"

XML Tag: ControllerId ControllerConstruct ConstructMonth ConstructYear CtrlBleedRateDesc CtrlBleedRateReason ControllerDeviation

e.g.: Controller 12A e.g.: modified e.g.: February e.g.: 2017 e.g.: Controller has a bleed rate of 8 scfh. e.g.: safety bypass controller requires use of a high-bleed controller e.g.: Controller was not tagged with month and year of installation.

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"40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report

"

"For each storage vessel affected facility, an owner or operator must include the information specified in paragraphs (b)(6)(i) through (vii) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

"Storage Vessels Constructed, Modified, Reconstructed or Returned to Service During Reporting Period that Comply with §60.5395a(a)(2) with a Control Device Tested Under § 60.5413a(d) "

"Facility Record No. *

(Select from dropdown list - may need to scroll up)" "Storage Vessel ID *

(§60.5420a(b)(1)(ii) and §60.5420a(b)(6)(i))" "Was the storage vessel constructed, modified or reconstructed during the reporting period? *

(§60.5420a(b)(6)(i))" Latitude of Storage Vessel (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(6)(i)) "Longitude of Storage Vessel (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) *

(§60.5420a(b)(6)(i))" "If new affected facility or if returned to service during the reporting period, provide documentation of the VOC emission rate determination according to §60.5365a(e).* (§60.5420a(b)(6)(ii))" Records of deviations where the storage vessel was not operated in compliance with requirements * (§60.5420a(b)(6)(iii) and §60.5420a(c)(5)(iii)) "Have you met the requirements specified in §60.5410a(h)(2) and (3)?*

(§60.5420a(b)(6)(iv))" "Removed from service during the reporting period? *

(§60.5420a(b)(6)(v))" "If removed from service, the date removed from service. *

(§60.5420a(b)(6)(v))" "Returned to service during the reporting period? *

(§60.5420a(b)(6)(vi))" "If returned to service, the date returned to service. *

(§60.5420a(b)(6)(vi))" "Make of Purchased Device *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(A))" "Model of Purchased Device *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(A))" Serial Number of Purchased Device * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(A)) "Date of Purchase *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(B))" "Copy of Purchase Order *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(C))" Latitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(D)) "Longitude of Control Device (Decimal Degrees to 5 Decimals Using the North American Datum of 1983) *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(D))" Inlet Gas Flow Rate * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(E)) "Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per record." "Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15-Minute Period * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per record." "Please provide the file name that contains the Records of Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per record." "Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per record." "Please provide the file name that contains the Records of Manufacturer's Written Operating Instructions, Procedures and Maintenance Schedule *

(§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per record."

XML Tag: VesselId VesselConstruct VesselLatitude VesselLongitude VesselVocRateDesc VesselDeviation VesselRequirementFlag VesselRemoveFlag VesselRemoveDate VesselReturnFlag VesselReturnDate SvMake SvModel SvSerialId SvPurchaseDate SvPurchaseFile SvLatitude SvLongitude SvFlowRate SvFlameFile SvEmissionFile SvMaintFile SvVisibleFIle SvInstructionFile

e.g.: Tank 125 e.g.: modified e.g.: 34.12345 e.g.: -101.12345 e.g.: VOC emission rate is 6.5 tpy. See file rate_determination.pdf for more information. "e.g.: On October 12, 2016, the pilot flame was not functioning on the combustion unit controlling the storage vessel." e.g.: Yes e.g.: Yes e.g.: 11/15/16 e.g.: Yes e.g.: 11/15/16 e.g.: Incinerator Guy e.g.: 400 Combustor e.g.: 123B3D392 e.g.: 12/10/16 e.g.: purchase_order.pdf or XYZCompressorStation.pdf e.g.: 34.12340 e.g.: -101.12340 e.g.: 3000 scfh e.g.: pilotflame.pdf or XYZCompressorStation.pdf e.g.: noemissions.pdf or XYZCompressorStation.pdf e.g.: maintainlog.pdf or XYZCompressorStation.pdf e.g.: emistest.pdf or XYZCompressorStation.pdf e.g.: manufinsruct.pdf or XYZCompressorStation.pdf

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"40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report

"

"For the collection of fugitive emissions components at each well site and the collection of fugitive emissions components at each compressor station within the company-defined area, an owner or operator must include the records of each monitoring survey including the information specified in paragraphs (b)(7)(i) through (xii) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

OGI Compressor Station Affected Facility Only

"Facility Record No. *

(Select from dropdown list - may need to scroll up)" Identification of Each Affected Facility * (§60.5420a(b)(1)) Date of Survey * (§60.5420a(b)(7)(i)) Survey Begin Time * (§60.5420a(b)(7)(ii)) Survey End Time * (§60.5420a(b)(7)(ii)) Name of Surveyor * (§60.5420a(b)(7)(iii)) Ambient Temperature During Survey * (§60.5420a(b)(7)(iv)) Sky Conditions During Survey * (§60.5420a(b)(7)(iv)) Maximum Wind Speed During Survey * (§60.5420a(b)(7)(iv)) Monitoring Instrument Used * (§60.5420a(b)(7)(v)) "Deviations From Monitoring Plan (If none, state none.) * (§60.5420a(b)(7)(vi)) " Type of Component for which Fugitive Emissions Detected * (§60.5420a(b)(7)(vii)) "Number of Each Component Type for which Fugitive Emissions Detected *

(§60.5420a(b)(7)(vii)) " Type of Component Not Repaired as Required in §60.5397a(h) * (§60.5420a(b)(7)(viii)) Number of Each Component Type Not Repaired as Required in § 60.5397a(h) * (§60.5420a(b)(7)(viii)) Type of Difficult-to-Monitor Components Monitored * (§60.5420a(b)(7)(ix)) Number of Each Difficult-to-Monitor Component Type Monitored * (§60.5420a(b)(7)(ix)) Type of Unsafe-to-Monitor Component Monitored * (§60.5420a(b)(7)(ix)) Number of Each Unsafe-to-Monitor Component Type Monitored * (§60.5420a(b)(7)(ix)) "Date of Successful Repair of Fugitive Emissions Component *

(§60.5420a(b)(7)(x)) " Type of Component Placed on Delay of Repair * (§60.5420a(b)(7)(xi)) Number of Each Component Type Placed on Delay of Repair * (§60.5420a(b)(7)(xi)) Explanation for Delay of Repair * (§60.5420a(b)(7)(xi)) "Type of Instrument Used to Resurvey Repaired Components Not Repaired During Original Survey *

(§60.5420a(b)(7)(xii)) " Training and Experience of Surveyor * (§60.5420a(b)(7)(iii)) "Was a monitoring survey waived under § 60.5397a(g)(5)? *

(§60.5420a(b)(7))" "If a monitoring survey was waived, the calendar months that make up the quarterly monitoring period for which the monitoring survey was waived. *

(§60.5420a(b)(7))"

XML Tag: FacId SurveyDate SurveyStartTime SurveyEndTime SurverorName AmbientTemp SkyCondition MaxWindSpeed MonitoringInstrument PlanDeviation FugitiveType FugitiveNum NotRepairedType NotRepairedNum DifficultType DifficultNum UnsafeType UnsafeNum RepairDate RepairType RepairNum RepairExplanation ResurveyInstrumentType SurveyorExperience SurveyWaivedFlag SurveyWaivedMonths

e.g.: Well Site ABC e.g.: 8/13/17 e.g.: 10:00 am e.g.: 1:00 pm e.g.: John Smith e.g.: 90°F "e.g.: Sunny, no clouds" e.g.: 2 mph e.g.: Company ABC optical gas imaging camera e.g.: None e.g.: Valve e.g.: 3 e.g.: Valve e.g.: 1 e.g.: Valve e.g.: 1 e.g.:Valve e.g.: 1 e.g.: 11/10/16 e.g.: Valve e.g.: 1 e.g.: Unsafe to repair until next shutdown e.g.: Company ABC

optical gas imaging camera e.g.: Trained thermographer; completed 40-hour course at XYZ Training Center. Has 10 years of experience with OGI surveys. e.g.: Yes e.g.: January; February; and March

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"40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report

"

"For each pneumatic pump affected facility, an owner or operator must include the information specified in paragraphs (b)(8)(i) through (iii) of this section in all annual reports: "

The asterisk (*) next to each field indicates that the corresponding field is required.

Pneumatic Pumps Previously Reported that have a Change in Reported Condition During the Reporting Period

"Facility Record No. *

(Select from dropdown list - may need to scroll up)" Identification of Each Pump * (§60.5420a(b)(1)) "Was the pneumatic pump constructed, modified, or reconstructed during the reporting period? *

(§60.5420a(b)(8)(i))" "Which condition does the pneumatic pump meet? *

(§60.5420a(b)(8)(i))" "If your route emissions to a control device and the control device is designed to achieve <95% emissions reduction, specify the percent emissions reduction. *

(§60.5420a(b)(8)(i)(C))" "Identification of Each Pump *

(§60.5420a(b)(8)(ii))" "Date Previously Reported*

(§60.5420a(b)(8)(ii))" "Which condition does the pneumatic pump meet? *

(§60.5420a(b)(8)(ii))" "If you now route emissions to a control device and the control device is designed to achieve <95% emissions reduction, specify the percent emissions reduction. *

(§60.5420a(b)(8)(ii) and §60.5420a(b)(8)(i)(C))" "Records of deviations where the pneumatic pump was not operated in compliance with requirements*

(§60.5420a(b)(8)(iii) and §60.5420a(c)(16)(ii))"

XML Tag: PumpId PumpConstruct PumpCondition PumpReductionPercent PumpChangeId PumpChangeDate PumpChangeCondition PumpChangeReductionPercent PumpDeviation

e.g.: Pump 12-e-2 e.g.: modified e.g.: Emissions are routed to a control device or process e.g.: 90% e.g.: Pump 12-e-2 e.g.: 10/15/17 e.g.: Control device/process removed and technically infeasible to route elsewhere e.g.: 90% e.g.: deviation of the CVS inspections

Comments

ExcelTemp4 Comments

Comment 8: Mia, Marcia:

similar requiremnets for storage vessels? It doesn't look like its referenced from the report.

Comment 7: Mia, Marcia:

Add for recip comp, pneumatic pumps