NORTH CAROLINA DIVISION OF AIR QUALITY 15A NCAC 2D .2100 - Risk Management Program

112(r) Inspection Checklist

Inspection:	40 CFR 68, Subpart G, Risk Management Plan:
Inspection (date/time):	1.2 EPA Facility ID#:
Facility ID Number:	1.7 Responsible Person:
Facility Name:	1.8 Emergency Contact:
Inspection Team Leader:	1.8.c. Phone Number:
Team Member:	1.8.e. E-mail Address:
Team Member:	RMP Anniversary Date:
Facility Representative:	Title:
Facility Representative:	Title:
Facility Representative:	Title:

Section 1.17 Process(es):

Process	Chemical	Quantity (lbs)	Program Level

CHECKLIST KEY:

 \overline{Y} = YES indicates that the facility had documentation for the corresponding item at the time of inspection

N = NO indicates that the facility did not have documentation for the corresponding item at the time of inspection

UN = UNAVAILABLE indicates that the documentation was not available for review at the time of the inspection

N/A = NOT APPLICABLE may be used to indicate that a certain item is not applicable to the process

N/E = NOT EVALUATED may be used to indicate that a certain item was not evaluated at the time of the inspection

Subpart A - General	.2103(2): 40 CFR 68.15, Management		
.2103(1): 40 CFR 68.12, General requirements §68.12(a): The owner/operator of stationary source subject to this part shall submit a single RMP §68.12(b): Program 1 process: In addition to (a) above: (1) Document no imparts to public receptors: §68.25; (2) No accidents in last five years: §68.42; (3) Response coordinated with local responders; and (4) Certify RMP: "Based on the criteria in 40 CFR 68.10." §68.12(c): Program 2 process: In addition to (a) above: (1) Implement management system: §68.15; (2) Conduct Hazard Assessment: Subpart B; (3) Implement program 2 prevention: §68.48 - §68.60; (4) Coordinate response actions with LEPCs: §68.93; (5) Implement ER plan and conduct exercises as provided in §§68.90, 95 and (NEW: 68.96); and (6) Submit in RMP Program 2 elements: §68.170. §68.12(d): Program 3 process: In addition to (a) above: (1) Implement management system: §68.15; (2) Conduct Hazard Assessment: §68.20 - §68.42; (3) Implement program 3 prevention: §68.60 - §68.42; (3) Implement Regram 3 prevention: §68.20 - §68.42; (3) Implement program 3 prevention: §68.60 - §68.42; (4) Coordinate response actions with LEPCs: §68.93; (5) Implement ER plan and conduct exercises as provided in §§68.90, 95 and (NEW: 68.96); and (6) Submit in RMP Program 3 prevention: §68.61 - §68.47; (4) Coordinate response actions with LEPCs: §68.93; (5) Implement ER plan and conduct exercises as provided in §§68.90, 95 and (NEW: 68.96); and<	.2103(2): 40 CFR 68.15, Management §68.15(a): Shall develop a management system to oversee the implementation of risk management program elements. §68.15(b): Shall assign a qualified person <u>or</u> position that has the overall responsibility for the development, implementation, and integration of the risk management program. §68.15(c): When more than one person is involved: Names or positions documented Lines of authority defined through an organizational chart <u>or similar means.</u> COMMENTS:		
§§68.90, 95 and (NEW: 68.96); and			

	§68.54, Training
SCO 40. Ontativitations the	§68.54(a): Shall ensure that each employee assigned to a covered
§68.48, Safety information	process have been trained or tested competent in the operating
a): Shall compile and maintain the following up-to-date	procedures provided in §68.52. §68.54(b): Refresher training shall be provided at least every three
information:	years.
S required by 29 CFR 1910.1200(g); ximum intended inventory;	§68.54(c): May use training conducted under Federal or state
e upper and lower temperatures, pressures, flows, and	regulations or industry specific standards or codes or training
compositions;	conducted by covered process equipment vendors.
ipment specifications; and	§68.54(d): Shall ensure that operators are trained in any updated or
odes and standards used to design, build, and operate the	new procedures prior to startup of a process after a major change
cess.	COMMENTS:
): Shall ensure that the process is designed in compliance	
cognized and generally accepted good engineering	
 c): Shall update the safety information if a major change 	
rs that makes the information inaccurate	§68.56, Maintenance
ITS:	§68.56(a): Shall prepare and implement procedures to maintain the
	on-going mechanical integrity of the process equipment.
	§68.56(b): Shall train each employee involved in maintaining the on-
	going mechanical integrity of the process. §68.56(c): Shall ensure that each contract maintenance employee is
	trained to perform the maintenance procedures.
	§68.56(d): Inspection and testing procedures shall follow recognized
	and generally accepted good engineering practices (RAGAGEPs)
§68.50, Hazard review	COMMENTS:
a): Shall conduct a review of the hazards associated with the	
ulated substances, process, and procedures. The review	
identify the following:	
he hazards associated with the process and regulated	§68.58, Compliance audits
substance; oportunities for equipment malfunctions or human errors	§68.58(a): Shall certify that they have evaluated compliance with the
that could cause an accidental release;	provisions of this subpart at least every three years.
e Safeguards used or needed to control the hazards or	§68.58(b): Shall be conducted by at least one person
prevent equipment malfunction or human error; and	knowledgeable in the process
y steps used or needed to detect or monitor releases.	§68.58(c): Shall develop a report of the audit findings
Shall determine whether the process is designed,	
ated, and operated in accordance with the applicable	§68.58(d): Shall promptly determine and document an appropriate
ds or rules.	response to each of the findings
: Shall document the results of the review and ensure that	§68.58(e): Shall retain the two (2) most recent compliance audit
ems identified are resolved in a timely manner I): Shall be updated at least once every five years	reports COMMENTS:
	COMMENTS.
MENTS:	
	§68.60, Incident investigation
	§68.60(a): Shall investigate each incident which resulted or could
	reasonably have resulted in a catastrophic release.
	reasonably have resulted in a catastrophic release. §68.60(b): Shall be initiated as promptly as possible, but not later
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(a): Shall prepare written operating procedures that provide ar instructions or steps for safely conducting activities sociated with each covered process consistent with the safety prmation for the process (b): The procedures shall address the following: Initial startup;	 §68.60(b): Shall be initiated as promptly as possible, but not later than 48 hours following the incident. §68.60(c): An incident investigation team shall be established and consist of at least one person knowledgeable in the process involved and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. §68.60(d): A report shall be prepared at the conclusion of the investigation which includes at a minimum:
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2(a): Shall prepare written operating procedures that provide ear instructions or steps for safely conducting activities sociated with each covered process consistent with the safety formation for the process 2(b): The procedures shall address the following: 1) Initial startup; 2) Normal operations; 3) Temporary operations;	 §68.60(b): Shall be initiated as promptly as possible, but not later than 48 hours following the incident. §68.60(c): An incident investigation team shall be established and consist of at least one person knowledgeable in the process involved and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. §68.60(d): A report shall be prepared at the conclusion of the investigation which includes at a minimum: Date of incident; Date investigation began; A description of the incident; The factors that contributed to the incident; and, Any recommendations resulted from the investigation.
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§68.65, Process safety information (PSI)	
68.65(a): Shall complete a compilation of written PSI before	
conducting any process hazard analysis required by the rule.	
68.65(b): Does information pertaining to the hazards of the	
regulates substances in the process consist of at least the	
following:	
(1) Toxicity information;	
(2) Permissible exposure limits;(3) Physical data;	
(4) Reactivity data;	
(5) Corrosivity data;	
(6) Thermal and chemical stability data; and	
(7) Hazardous effects of inadvertent mixing.	
68.65(c): Does the PSI contain the following information pertaining	
to the technology of the process:	
(i) A block flow diagram;	
(ii) Process chemistry;	
(iii) Maximum intended inventory;	
(iv) Safe upper and lower limits such as temp, pressure, flows or	
compositions; and,	
(v) An evaluation of the consequences of deviations.	
68.65(d)(1): Does the PSI contain the following information	
pertaining to the equipment in the process:	
(i) Materials of construction;	
(ii) Piping and instrument diagrams (P&ID's);	
(iii) Electrical classification;(iv) Relief system design and design basis;	
(v) Ventilation system design and design basis,	
(v) Verification system design, (vi) Design codes and standards employed;	
(vi) Material and energy balances for processes built after June	
21, 1999; and	
(viii) Safety systems (e.g. interlocks, detection or suppression	
systems).	
68.65(d)(2): The owner/operator shall document that equipment	
complies with recognized and generally accepted good	
engineering practices (RAGAGEP).	
68.65(d)(3): For existing equipment that are designed and	
constructed in accordance with codes, standards, or practices	
that are no longer in general use, the owner/operator shall	
determine and document that the equipment is designed,	
maintained, inspected, tested and operating in a safe manner.	
COMMENTS:	
868,67, Process hazard analysis (PHA)	
§68.67, Process hazard analysis (PHA)	
68.67(a): Shall identify, evaluate, and control the hazards involved	
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MMENTS:

§68.69, Operating procedures	
§68.69(a): Shall develop and implement written operating	
procedures that provide clear instructions for safely conducting	
activities involved in each covered process consistent with the	
PSI and shall address at least the following elements: §68.69(a)(1): Steps for each operating phase:	
(i) Initial startup;	
(ii) Normal operation;	
(iii) Temporary operations;	
(iv) Emergency shutdown;	
(v) Emergency operation; (vi) Normal shutdown; and	
(vi) Normal shudown, and (vii) Startup following a turnaround, or after an emergency	
shutdown.	
§68.69(a)(2): Operating limits:	
(i) Consequences of deviation; and	
(ii) Steps required to correct or avoid deviation.	
§68.69(a)(3): Safety and health considerations:(i) Properties of the hazards presented, by the chemicals used in	
the process;	
(ii) Precautions necessary to prevent exposure;	
(iii) Control measures to be taken if physical contact or airborne	
exposure occur;	
 (iv) Quality control for raw materials and control of hazardous chemical inventory levels; and 	
(v) Any special or unique hazards.	
§68.69(a)(4): Safety systems and their functions.	
§68.69(b): Shall be readily accessible to employees who work in or	
maintain a process. §68.69(c): Shall certified annually that operating procedures are	
current and accurate.	
§68.69(d): Shall develop and implement Safe work practices to	
provide for the control of hazards during specific operations (i.e.,	
lockout/tagout, confined space entry, entrance/access	
procedures, opening process equipment/piping) for employees and contractor employees.	
COMMENTS:	
§68.71, Training	
§68.71(a): Employees involved in operating a process, and before	
§68.71(a): Employees involved in operating a process, and before being involved in operating a newly assigned process, are	
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- (2) Snall follow (RAGAGEPs);
 (3) Shall be consistent with applicable manufacturers' recommendations; and
 (4) Shall be documented.

68.73(e): Shall correct deficiencies in equipment that are outside acceptable limits (defined by PSI) before further use or in a safe	§68.81, Incident investigation
and timely manner when necessary means are taken to assure	§68.81(a): Shall investigate each incident which resulted or could
safe operation.	reasonably have resulted in a catastrophic release.
 8.73(f): Quality Assurance: (1) Shall assure that equipment as it is fabricated is suitable for 	§68.81(b): Shall be initiated as promptly as possible, but not later
the process application for which they will be used:	than 48 hours following the incident.
(2) Appropriate checks and inspections shall be performed to	§68.81(c): An incident investigation team shall be established and
assure that equipment is installed properly and consistent	consist of at least one person knowledgeable in the process involved.
with design specifications and the manufacturer's	§68.81(d): A report shall be prepared at the conclusion of the
instructions; and	investigation which includes at a minimum:
3) Shall assure that maintenance materials, spare parts and	(1) Date of incident;
equipment are suitable for the process application for which	(2) Date investigation began;
they will be used.	(3) A description of the incident;
MENTS:	(4) The factors that contributed to the incident; and,
	(5) Any recommendations resulting from the investigation.
§68.75, Management of change	§68.81(e): Shall establish a system to promptly address and resolv the incident report findings and recommendations.
a): Shall establish and implement written procedures to	§68.81(f): The report shall be reviewed with all affected personnel
anage changes to process chemicals, technology, equipment,	whose job tasks are relevant to the incident findings including
edures, and changes to stationary sources that affect a	contract employees where applicable
vered process.	§68.81(g): Investigation reports shall be retained for five years.
b): Shall assure that the following considerations are	
dressed prior to any change:	COMMENTS:
) The technical basis for the proposed change;	
) Impact of change on safety and health;) Modifications to operating procedures;	
4) necessary time period for the change; and	SEO 02 Employee participation
5) Authorization requirements for the proposed change.	§68.83, Employee participation
5(c): Operation, maintenance and/or contract employees,	§68.83(a): Shall develop a written plan of action regarding the
nose job tasks would be affected by a change in the process,	implementation of the employee participation requirements.
informed of, and trained in, the change prior to start-up of the	§68.83(b): Shall consult with employees and their representatives
cess or affected part of the process.	on the conduct and development of PHAs and on the development of the other elements of PSM.
5(d): If any change resulted in a change in PSI, such	§68.83(c): Shall provide to employees and their representatives
rmation shall be updated accordingly.	access to PHAs and to all other information required to be
5(e): If any change resulted in a change in operating	
rocedures or practices, such procedures or practices shall be	developed under RMP. COMMENTS:
lated accordingly.	
lated accordingly.	
ated accordingly.	COMMENTS: §68.85, Hot work permit §68.85(a): Shall issue a hot work permit for hot work operations
dated accordingly. MENTS: §68.77, Pre-startup review	COMMENTS: §68.85, Hot work permit §68.85(a): Shall issue a hot work permit for hot work operations conducted on or near a covered process
ated accordingly. ENTS: §68.77, Pre-startup review a): Shall perform a pre-startup safety review for new	COMMENTS: §68.85, Hot work permit §68.85(a): Shall issue a hot work permit for hot work operations conducted on or near a covered process §68.85(b): Hot work permits document that fire protection and
dated accordingly. MENTS: §68.77, Pre-startup review 7(a): Shall perform a pre-startup safety review for new ationary sources and for modified stationary sources when the	COMMENTS: §68.85, Hot work permit §68.85(a): Shall issue a hot work permit for hot work operations conducted on or near a covered process §68.85(b): Hot work permits document that fire protection and prevention requirements in 29 CFR 1910.252(a) have been
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.2103(6): Subpart E – Emergency Response	§68.95, Emergency Response Program
Non-Responding Stationary Sources	§68.95(a): Shall develop and implement an emergency response program for the purposes of protecting public health and the
68.90(b): The owner or operator of a stationary source whose	environment.
employees will not respond to accidental release of regulated	§68.95(a)(1): An emergency response plan shall have the following
substance need not comply with §68.95 of this part provided that:	(i): Procedures for informing the public and appropriate Federa
(1) For stationary sources with toxic regulated substances shall	state, and LEPC about accidental releases;
be included in the community emergency response plan;	(ii) Documentation of proper first aid; and
(2) For stationary sources with flammable regulated substances	(iii) Procedures for emergency response after an accidental
shall be coordinated with local fire departments;	release of a regulated substance.
(3) Appropriate mechanisms are in place to notify emergency	§68.95(a)(2): Procedures for use of emergency response equipme
responders	and for its inspection, testing, and maintenance.
(4) Shall perform the annual emergency response coordination	§68.95(a)(3): Training for all employees in relevant procedures.
activities required under§ 68.93; and	
(5) Shall perform the annual notification exercise required under	§68.95(a)(4): Procedures to review and update as appropriate the
§68.96(a) (by 12/19/2024).	emergency response plan to reflect changes at the stationary
	source and ensure that employees are informed of changes.)
§68.93, Emergency Response Coordination	§68.95(c): The emergency response plan is coordinated with the
(§68.10(b): Effective September 21, 2018)	LEPC's community emergency response plan
68.93(a): Coordination shall occur at least annually to address	
changes: at the stationary source; in the stationary source's	§68.96, Emergency Response Exercises
emergency response and/or emergency action plan' and/or in the	§68.96(a): Notification exercises - At least once every calendar ye
community emergency response plan.	conduct an exercise of the stationary source's emergency response
68.93(b): Coordination shall include providing the LEPC with:	notification mechanisms required under 68.90(b)(3) or 68.95(a)(1)(
Providing the LEPC with the emergency response plan if	Shall maintain a written record of each notification exercise
one exists, emergency action plan, updated emergency	conducted over the last five years. (by 12/19/2024)
contact information; and any other information that the LEPC	§68.10(d): Shall have developed plans for conducting emergency
identifies as relevant to ER planning.	response exercises in accordance with provisions of §68.96
For responding stationary sources, coordination shall also	(by 12/19/2023).
include consulting with LEPCs to establish appropriate	§68.96(b): Emergency response exercise program - For sources
schedules and plans for field and tabletop exercises	subject to 68.95, shall develop exercise plans and schedules to
required under §68.96(b).	include as appropriate emergency response contractors and the
,	LEPC.
 Shall request an opportunity to meet with the LEPC to review and discuss these metarials 	§68.96(b)(1): Field exercises - Shall conduct field exercises
review and discuss these materials.	involving the simulated accidental release of a regulated
68.93(c): Shall document coordination with local authorities,	substance:
including: the names of individuals involved and their contact	
information; dates of coordination activities, and nature of	(i) Frequency – By March 15, 2027 and at a minimum of at leas
coordination activities.	once every ten years.
SCO OG Emergeney Deenenee Evereisee	 (ii) Scope. test procedures to notify the public and appropriate federal, state, and local agencies, and measures for
§68.96, Emergency Response Exercises	emergency response actions including evacuations and
68.96(a): Notification drill - At least once every calendar year,	medical treatment; tests of communication systems,
conduct an exercise of the stationary source's emergency response	mobilization of facility ER personnel, including contractors.
notification mechanisms required under 68.90(b)(3) or 68.95(a)(1)(i).	
Shall maintain a written record of each notification exercise	as appropriate, LEPC equipment deployment, and any oth
onducted over the last five years. (by 12/19/2024)	action identified in the ER program as appropriate.
	(NO due date, pending on agreed upon frequency) §68.96(b)(2): <u>Tabletop exercises</u> - Shall conduct a tabletop exercises
Responding Stationary Sources	involving the simulated accidental release of a regulated
68.90(a): Shall comply with the requirements of §§ 68.93, 68.95,	substance.
and 68.96.	(i) Frequency - By December 21, 2026 and at a minimum of at
	least once every three years.
§68.93, Emergency Response Coordination	(ii) Scope – shall involve discussions of the source's emergence
(Effective September 21, 2018)	response plan. The exercise should include discussion of
68.93(a): Coordination shall occur at least annually to address	 Procedures to notify the public and the appropriate
changes: at the stationary source; in the stationary source's	Federal, state, and local emergency response
emergency response and/or emergency action plan' and/or in the	agencies;
community emergency response plan.	 Procedures and measures for emergency response
68.93(b): Coordination shall include providing the LEPC with:	 Procedures and measures for emergency response including evacuations and medical treatment:
 Providing the LEPC with the emergency response plan if 	 Identification of a facility emergency response personnal and/or contractors and their response bilitie
one exists, emergency action plan, updated emergency	personnel and/or contractors and their responsibilities
contact information; and any other information that the LEPC	Coordination with local emergency responders;
identifies as relevant to ER planning.	Procedures for emergency response equipment
For responding stationary sources, coordination shall also	deployment; and
include consulting with LEPCs to establish appropriate	Any other action identified in the emergency response
schedules and plans for field and tabletop exercises	plan as appropriate. (by 12/21/20204)
required under §68.96(b).	§68.96(c): <u>Alternative means</u> -
 Shall request an opportunity to meet with the LEPC to 	(1) Exercises conducted to meet other Federal, state or local
review and discuss these materials.	exercise requirements
68.93(c): Shall document coordination with local authorities,	(2) Response to an accidental release provided the response
	includes the actions indicated in paragraphs (a) and/or (b)
including: the names of individuals involved and their contact	
including: the names of individuals involved and their contact information; dates of coordination activities, and nature of	this section.