SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [HELP]

1. Name of proposed project, if applicable:

   Selective Catalytic Reduction (SCR) Add-on Pollution Control System

2. Name of applicant:

Applicant: Cardinal FG Company – Winlock, WA

3. Address and phone number of applicant and contact person:

Contact: Steven Godlewski
Phone: 360.242.4300
Address: 545 West Avery Road
Winlock, WA 98596

4. Date checklist prepared:

4/24/20

5. Agency requesting checklist:

Lewis County

6. Proposed timing or schedule (including phasing, if applicable):

April 2021 – October 2021

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

A storm water pollution prevention plan will be prepared

Air Discharge Permit

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No

10. List any government approvals or permits that will be needed for your proposal, if known.

Building Permit, Grading Permit, Air Discharge Permit with SWCAA

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Installation of Selective Catalytic Reduction (SCR) Emission Control Technology to reduce NOx emissions.

Actions required: Site preparation, grading, construction of foundations, extention of utitilities, and SCR integration into existing furnace exhaust system.

Construction area is estimated to be 43,500 square feet

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

Cardinal FG Company – Winlock is located at 545 West Avery Road, Winlock, WA 98596.

Section: 10 Township: 12N Range: 02W S10 T12N R2W

Tax Parcel Number(s): 015066001001 & 015066001002

B. Environmental Elements [HELP]

1. *Earth* [help]

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)?

5% or less

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Silty clay loam, gravel

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

We are unaware of any unstable soils in the immediate vicinity

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Excavation & grading for SCR foundations. Quantities and materials TBD based on accepted design. Grading and excavating needed to prepare site for SCR System. Approximate area affected is 43,500 square feet. Approximate excavating quantity is 1611 cubic yards. Anticipated soil source is use of existing soils or imported structural fill.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

No

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Adding approx. 15,400 square feet for SCR system, and potentially 7,500 square feet for road path relocation. Approx. 38%

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Any exposed soil requiring stabilization due to weather, or left unworked for more than 2 days will be covered.

- Silt fence around perimeter of work area
- Storm inlet projection
- Mulch and seed for final stabilization

2. Air [help]

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Emissions from construction equipment and dust from exposed soil and gravel during construction.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Dust from soil, gravel, and debris will be wetted as needed with water to limit/eliminate impacts to air. Construction equipment will be required to be in good repair to eliminate unnecessary emissions.

3. Water [help]

a. Surface Water: [help]

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Site is within 100 feet of storm water pond that drains to Olequa Creek.
Oblequa Creek is approximately 1045 feet from construction area.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes, existing road may be moved closer to storm water pond.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

N/A

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

N/A

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

Property not in FEMA mapped flood zone.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No

b. Ground Water: [help]

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

No waste material will be discharged into the ground from septic tanks or other sources

c. Water runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Storm water runoff will be directed to adjacent exiting storm water pond and follow existing storm water system flow path. Storm water discharge is to Olequa Creek 1045 feet away.

2) Could waste materials enter ground or surface waters? If so, generally describe.

Runoff is treated in the existing condition, and will continue to be treated in the proposed condition.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Existing storm water ponds will continue to control surface runoff.

4. Plants [help]

a. Check the types of vegetation found on the site:

- [x] deciduous tree: alder, maple, aspen, other
- [x] evergreen tree: fir, cedar, pine, other
- [x] shrubs
- [x] grass
- [ ] pasture
- [ ] crop or grain
- [ ] Orchards, vineyards or other permanent crops.
- [x] wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- [ ] water plants: water lily, eelgrass, milfoil, other
- [ ] other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

None

c. List threatened and endangered species known to be on or near the site.

Not aware of any endangered species on or near site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Area of construction restored using vegetation and plants matching existing on-site.

e. List all noxious weeds and invasive species known to be on or near the site.

No known noxious weeds or invasive species.

5. Animals [help]

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: hawk, heron, eagle, songbirds, other. Geese
mammals: deer, bear, elk, beaver, other.
fish: bass, salmon, trout, herring, shellfish, other _____

b. List any threatened and endangered species known to be on or near the site.

Not aware of any threatened or endangered species on or near sit.

c. Is the site part of a migration route? If so, explain.

Most of WA is considered bird migration route. Site has geese seasonally.

d. Proposed measures to preserve or enhance wildlife, if any:

None for project. Proposed project will not remove any habitat.

e. List any invasive animal species known to be on or near the site.

Not aware of any invasive animal species on or near site.

6. Energy and Natural Resources [help]

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electric: Equipment and lighting

Natural Gas: Reheat exhaust for SCR operation specifications

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Variable frequency drives on electric motors.

Use of LED lighting fixtures.

7. Environmental Health [help]

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

No change to fire, explosion, or hazardous waste risks.

Spill and health risk from storage and use of 19 % aqueous ammonia solution in the SCR System.

1) Describe any known or possible contamination at the site from present or past uses.

Not aware of contamination from present or past uses.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

-There is a natural gas pipeline regulator station within the project area.

- There is a 4,000 gallon, above ground, diesel tank in the vicinity of the project.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Aqueous ammonia 19% solutions for SCR operation.

4) Describe special emergency services that might be required.

Fire, explosion, and spill response.

5) Proposed measures to reduce or control environmental health hazards, if any:

- Routine scheduled maintenance
- Secondary containment for spills
- Procedures for response and cleanup in the event of a fire, explosion, or spill.
- Automated supervisory systems.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Short term – Additional traffic and construction during work hours. Approximately 7am – 5pm

3) Proposed measures to reduce or control noise impacts, if any:

No proposed measures.

8. Land and Shoreline Use [help]

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

Residential, agricultural, forest/wetland/river. This proposal will not affect these uses.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

N/A

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

c. Describe any structures on the site.

A float glass manufacturing plant is on the site. The proposed project will be near the exhaust stack of the furnace.

d. Will any structures be demolished? If so, what?

N/A

e. What is the current zoning classification of the site?

UGA – County.

f. What is the current comprehensive plan designation of the site?

Manufacturing.

g. If applicable, what is the current shoreline master program designation of the site?

N/A

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

Project would not require any additional employees.

j. Approximately how many people would the completed project displace?

Project would not displace any employees.

k. Proposed measures to avoid or reduce displacement impacts, if any:

N/A

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The site is designated for manufacturing. The proposed project will be designed to integrate into the existing furnace exhaust emissions control system of the manufacturing facility.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

N/A

9. Housing [help]

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

N/A - 0

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

N/A - 0

c. Proposed measures to reduce or control housing impacts, if any:

N/A

10. Aesthetics [help]

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

Approximately 57 ft.

b. What views in the immediate vicinity would be altered or obstructed?

None.

b. Proposed measures to reduce or control aesthetic impacts, if any:

N/A

11. Light and Glare [help]

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Light from exterior fixture on landings, maintenance platforms, and around structure for safety at night.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation [help]

a. What designated and informal recreational opportunities are in the immediate vicinity?

None.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None.

13. Historic and cultural preservation [help]

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? If so, specifically describe.

No.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

We are not aware of any landmarks, features, or other evidence of Indian or historic use or occupation near the site.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

GIS data was used to asses potential impacts.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

N/A

14. Transportation [help]

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

West Avery Road is the only public street access to Cardinal FG Company - Winlock

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

No. Closest stop is approximately 7 miles away.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

0 New. 0 Eliminated.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

The proposed SCR will not impact daily transportation.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

h. Proposed measures to reduce or control transportation impacts, if any:

N/A

15. Public Services [help]

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

N/A

16. Utilities [help]

a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

c. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

No new utilities are proposed as part of this project.

C. Signature [HELP]

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: Steven Godlewski & Michael Dietrich

Name of signee: Steven Godlewski

Michael Dietrich

Position and Agency/Organization:

Steven Godlewski - Engineering Manager - Cardinal FG Winlock

Michael Dietrich – Engineering Manager - ACa Engineering –

Engineering Consulting Firm for Cardinal FG

Date Submitted: 5/5/2020 (SG/WLFG) & 10/09/2020 (MrD/ACa)

D. Supplemental sheet for nonproject actions [HELP]

(**IT IS NOT NECESSARY** to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

The proposed project will not increase discharge to water. The SCR will reduce furnace NOx emissions, but require the storage of aqueous ammonia 19% to do so. The impervious area will increase by up to approximately 22,900 square feet. Noise levels should not increase.

Proposed measures to avoid or reduce such increases are:

Water runoff from additional impervious area will be treated by existing on-site storm treatment ponds.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

The proposed project site is already covered by gravel, so no plants or animals should be affected.

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

Two existing on-site storm water treatment ponds to treat water run-off.

3. How would the proposal be likely to deplete energy or natural resources?

The proposed project will require additional usage of electricity and natural gas on the property, but not enough to deplete local supply.

Proposed measures to protect or conserve energy and natural resources are:

Maintain equipment in a state of good repair.

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

It is unlikely the proposed project would affect any of these.

Proposed measures to protect such resources or to avoid or reduce impacts are:

- Secondary containment for aqueous ammonia 19% storage.
- Safety features for filling aqueous ammonia 19% tank.
- Catch basins and on-site storm water ponds to treat runoff water.

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

The proposal will not affect any land or shoreline use.

Proposed measures to avoid or reduce shoreline and land use impacts are:

N/A

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

The proposed project will not increase demands on transportation or public services and utilities.

Proposed measures to reduce or respond to such demand(s) are:

N/A

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

The proposed project will not conflict with environmental protection laws. Cardinal FG Company – Winlock is working with SWCAA and the Department of Ecology on this project to reduce NOx Emissions, and limit air impact.