APPENDIX F:

Examples of Environmental Checklists

- California Environmental Checklist (Retrieved from: http://ceres.ca.gov/topic/env law/ceqa/guidelines/appendices.html
- Washington State: Department of Ecology (Retrieved from: http://www.ecy.wa.gov/programs/sea/sepa/forms.htm)
- United States Department of Energy (Retrieved from: http://www.id.doe.gov/doeid/)
- Environmental & Health Screening Checklist used in Total Cost Assessment (AIChE CWRT, 1999)
- Generic Questionnaire Checklist for Addressing and/or Summarising the Cumulative Environmental Impacts of Projects (Canter & Kamath, 1995).

California Environmental Checklist

Project title:		Transportation
2. Lead agency name and address:	Mandatory Fordings of Significa	EHGP.
3. Contact person and phone numbe	r:	
4. Project location:	es cour o NOT have a significant	affect on the environment
5. Project sponsor's name and addre		
The state of the s	send contact could have a succitive	et effect on the
General plan designation:	7. Zoning	M AMITIGATEU
Description of project: (Describe to phases of the project, and any second Implementation. Attach additional shapes.)	dary, support, or off-site features no	ecessary for its
Service of the companied SEC	Les Link lesson - Sedentially signifi-	card mondfur sources
Surrounding land uses and setting	g: Briefly describe the projectors su	urroundings:
sept 0) the boson and committee of the c	see An ENVIONMENTAL IMPAC	TREPORT is required or
10. Other public agencies whose ap Participation agreement.)	proval is required (e.g., permits, fir	
AUGGATUS OSCI ABATIO	igo mentes de materiales burelles de Notario de propieses de configência.	measures that are impose
ENVIRONMENTAL FACTORS POT The environmental factors checked that least one impact that is a "Potential following pages."	pelow would be potentially affected	by this project, involving by the checklist on the
Aesthetics	Agriculture Resources	Air Quality
Biological Resources	Cultural Resources	Geology /Soils
Hazards & Hazardous Materials	Hydrology / Water Quality	Land Use / Planning

	Mineral Resources	Noise	Population / Housing
	Public Services	Recreation	Transportation/
	Utilities/Service Systems	Mandatory Findings of Significa	ance
DETER	RMINATION: (To be completed by	by the Lead Agency)	
On the	basis of this initial evaluation:		
	I find that the proposed project and a NEGATIVE DECLARATI	COULD NOT have a significant of ON will be prepared.	effect on the environment,
Vegau Vegau Leanu Topus Section	environment, there will not be a	d project could have a significant significant effect in this case be agreed to by the project proponer ll be prepared.	cause revisions in the
	I find that the proposed project ENVIRONMENTAL IMPACT R	MAY have a significant effect on EPORT is required.	the environment, and an
I) Lessa	significant unless mitigated" im been adequately analyzed in a and 2) has been addressed by	MAY have a "potentially significated on the environment, but at less a carlier document pursuant to a mitigation measures based on the An ENVIRONMENTAL IMPACT that remain to be addressed.	east one effect 1) has pplicable legal standards, ne earlier analysis as
Supplement of the state of the	environment, because all poter adequately in an earlier EIR or standards, and (b) have been a	ed project could have a significant effects (a) have ntially significant effects (a) have NEGATIVE DECLARATION pur avoided or mitigated pursuant to acluding revisions or mitigation miting further is required.	been analyzed suant to applicable that earlier EIR or
	Signature	identify:	Date
_	Printed name		for

EVALUATION OF ENVIRONMENTAL IMPACTS:

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls

outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

- 2) All answers must take account of the whole action involved, including off-site as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation Measures, and briefly explain how they reduce the effect to a less than significant level (Mitigation measures from Section XVII; "Earlier Analyses" may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA Process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

- a) Earlier Analysis Used. Identify and state where they are available for review.b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
- Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated", describe the mitigation measures, which were incorporated or refined from the earlier document and the extent, to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or Individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a) The significance criteria or threshold, if any, used to evaluate each question; and
 - b) The mitigation measure identified, if any, to reduce the impact to less than significance

SAMPLE QUESTION

Issues	Potentially Significant	Less than Significant	Less than	No Impac
	Impact	with	significant impact	
A County to the Secretary of the Property of the Secretary of		Mitigation	mpaor	
I AESTHETICS Mould the control of		Incorporation		
AESTHETICS Would the project: ABSTHETICS Would the project: ABSTHE				
b) Substantially damage scenic resources, including, but not				
limited to, trees, rock outcroppings, and historic buildings				
within a state scenic highway? c) Substantially degrade the existing visual character or				A
quality of the site and its surroundings? d) Create a new source of substantial light or glare, which				
would adversely affect day or nighttime views in the area?				
II. AGRICULTURE RESOURCES: In determining whether in	npacts to agric	ultural resources	are significant	
environmental effects, lead agencies may refer to the Californi	a Agricultural	and Evaluation	and Sita Accor	omont Mad
(1997) prepared by the California Dept. of Conservation as an	optional mode	I to use in asses	sing impacts of	n agriculture
and familiand. Would the project:			• ,	
a) Convert Prime Farmland, Unique Farmland, or Farmland				
of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring				
Program of the California Resources Agency, to non-				
agricultural use?				6
b) Conflict with existing zoning for agricultural use, or a				
Williamson Act contract?				
c) Involve other changes in the existing environment, which				
due to their location or nature, could result in conversion of				
armland, to non-agricultural use?				
II. AIR QUALITY Where available, the significance criteria	established by	v the applicable a	air quality mana	gement or a
condition control district may be relied upon to make the following	ng determinati	ons. Would the	project:	gement of a
a) Conflict with or obstruct implementation of the applicable				
air quality plan?				
o) Violate any air quality standard or contribute substantially				
to an existing or projected air quality violation? c) Result in a cumulatively considerable net increase of any				
criteria pollutant for which the project region is non-				
attainment under an applicable federal or state ambient air				
quality standard (including releasing emissions, which				
exceed quantitative thresholds for ozone precursors)?				
d) Expose sensitive receptors to substantial pollutant				
concentrations?	Dilling			
e) Create objectionable odors affecting a substantial number				
of people?				
V. BIOLOGICAL RESOURCES Would the project:				
a) Have a substantial adverse effect, either directly or				
hrough habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or				
regional plans, policies, or regulations, or by the California				
Department of Fish and Game or U.S. Fish and				
Vildlife Service?				
) Have a substantial adverse effect on any riparian habitat				
or other sensitive natural community identified in local or				
egional plans, policies, and regulations or by the California				
Department of Fish and Game or US Fish and Wildlife				
Service?				
) Have a substantial adverse effect on federally protected				7-7-7
vetlands as defined by Section 404 of the Clean Water Act				
including, but not limited to, marsh, vernal pool, coastal,				
tc.) Through direct removal, filling, hydrological nterruption, or other means?				
) Interfere substantially with the movement of any native				
esident or migratory fish or wildlife species or with			-	
established native resident or migratory wildlife corridors, or				
mpede the use of native wildlife nursery sites?				
e) Conflict with any local policies or ordinances protecting				

biological resources, such as a tree preservation policy or ordinance?	
f) Conflict with the provisions of an adopted Habitat	
Conservation Plan, Natural Community Conservation Plan,	
or other approved local, regional, or state habitat	
Conservation plan?	
V. CULTURAL RESOURCES Would the project:	
a) Cause a substantial adverse change in the significance of	
a historical resource as defined in ¤15064.5?	
b) Cause a substantial adverse change in the significance of	
an archaeological resource pursuant to	
×15064.5?	
c) Directly or indirectly destroy a unique paleontological	
resource or site or unique geologic feature?	
d) Disturb any human remains, including those interred outside of formal cemeteries?	
VI. GEOLOGY AND SOILS Would the project:	
a) Expose people or structures to potential substantial	
adverse effects, including the risk of loss, injury, or death	
Involving:	
i) Rupture of a known earthquake fault, as	
delineated on the most recent Alquist-Priolo	
Earthquake Fault Zoning Map issued by the	
State Geologist for the area or based on	
other substantial evidence of a known fault?	
Refer to Division of Mines and Geology	
Special Publication 42.	
Strong seismic ground shaking? Seismic-related ground failure, including	
liquefaction?	
iv) Landslides?	
b) Result in substantial soil erosion or the loss of topsoil?	
c) Be located on a geologic unit or soil that is unstable, or	
that would become unstable as a result of the project, and	
potentially result in on- or off-site landslide, lateral	
spreading, subsidence, liquefaction or collapse?	
d) Be located on expansive soil, as defined in Table 18-1-B	
of the Uniform Building Code (1994), creating substantial	
risks to life or property?	
 e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems 	
where sewers are not available for the disposal of	
wastewater?	
VII. HAZARDS AND HAZARDOUS MATERIALS Would the	ne project:
a) Create a significant hazard to the public or the	lo project.
environment through the routine transport, use, or disposal	
of hazardous materials?	
b) Create a significant hazard to the public or the	
environment through reasonably foreseeable upset and	
accident conditions involving the release of hazardous	
materials into the environment?	
c) Emit hazardous emissions or handle hazardous or acutely	
hazardous materials, substances, or waste within	
One-quarter mile of an existing or proposed school? d) Be located on a site which is included on a list of	
hazardous materials sites compiled pursuant to	
Government Code Section 65962.5 and, as a result, would it	
create a significant hazard to the public or the environment?	
e) For a project located within an airport land use plan or,	
where such a plan has not been adopted, within two miles of	
a public airport or public use airport, would the project result	
in a safety hazard for people residing or working in the	
project area?	
f) For a project within the vicinity of a private airstrip, would	
the project result in a safety hazard for people residing or	
working in the project area?	
g) Impair implementation of or physically interfere with an	
adopted emergency response plan or emergency evacuation plan?	
evacuation plan:	

h) Expose people or structures to a significant risk of loss,		
injury or death involving wild land fires, including where		
wildlands are adjacent to urbanized areas or where		
residences are intermixed with wildlands?		
VIII. HYDROLOGY AND WATER QUALITY Would the pro	piect:	
a) Violate any water quality standards or waste discharge	Ject.	
requirements?		
b) Substantially deplete groundwater supplies or interfere		
substantially with groundwater recharge such that there		
would be a net deficit in aquifer volume or a lowering of the		
local groundwater table level (a.g., the mand of the		
local groundwater table level (e.g., the production rate of		
pre-existing nearby wells would drop to a level which would		
not support existing land uses or planned uses for which		
permits have been granted)?		
c) Substantially alter the existing drainage pattern of the site		
or area, including through the alteration of the course of a		
stream or river, in a manner, which would result in		
substantial erosion or siltation on- or off-site?		
d) Substantially alter the existing drainage pattern of the site		
or area, including through the alteration of the course of a		
stream or river, or substantially increase the rate or amount		
of surface runoff in a manner, which would result in flooding		
on- or off-site?	l l	
e) Create or contribute runoff water which would exceed the		
capacity of existing or planned stormwater drainage systems		i a
or provide substantial additional sources of polluted runoff?		
f) Otherwise substantially degrade water quality?		
g) Place housing within a 100-year flood hazard area as		
mapped on a federal Flood Hazard Boundary or Flood		
Insurance Rate Man or other flood hazard delinesting		
Insurance Rate Map or other flood hazard delineation map?		
h) Place within a 100-year flood hazard area structures,		
which would impede or redirect flood flows?		
I) Expose people or structures to a significant risk of loss,		
injury or death involving flooding, including flooding as a		
result of the failure of a levee or dam?		
j) Inundation by seiche, tsunami, or mudflow?		
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f) For a project within the vicinity of a private airstrip,		
would the project expose people residing or working in		
the project area to excessive noise levels?		
XII. POPULATION AND HOUSING Would the project:		
All. FOR OLATION AND HOUSING Would the project.		
a) Induce substantial population growth in an area,		
either directly (for example, by proposing new homes		
and businesses) or indirectly (for example, through		
extension of roads or other infrastructure)?		
extension of roads of other limastructure):		
b) Displace substantial numbers of existing housing,		
necessitating the construction of replacement housing		
elsewhere?	_	
c) Displace substantial numbers of people,		
c) Displace substantial numbers of people,		
necessitating the construction of replacement housing		
elsewhere?		
XIII. PUBLIC SERVICES		
a) Would the project result in substantial adverse physical		
impacts associated with the provision of new or physically		
altered governmental facilities, need for new or		
physically altered governmental facilities, the construction		
physically altered governmental facilities, the construction		
of which could cause significant environmental impacts,		
in order to maintain acceptable service ratios, response		
times or other performance objectives for any of the		
public services:		

Fire protection?		
 Police protection? 		
 Schools? 		
03.100.00		
Parks?		
 Other public facilities? 		
XIV. RECREATION		
a) Would the project increase the use of existing		
neighborhood and regional parks or other recreational		and have that we have a
facilities such that substantial physical deterioration of		
the facility would occur or be accelerated?		
are recitly would cooul of be accelerated:		l I
h) Door the project include repressional facilities		
b) Does the project include recreational facilities or		
require the construction or expansion of recreational		
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d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	
e) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	er 43.2 C RCW, requires all povernmen
) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	red for till proposals with probabil significa
Comply with federal, state, and local statutes and egulations related to solid waste?	artis from your proposal (and to reduce
XVII. MANDATORY FINDINGS OF SIGNIFICANCE	to the time complete description of the second
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	ome basic information about your proposition whather the environmental impulse fan EIS. Answer the questions melly w
b) Does the project have impacts that are individually imited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	r knowledge in cross cases you an arriver or reject plans without the case to a preposal control to the question does not upoly to you preposal answers to the guestions now may avoid
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	Guestiche if you can, if you have proble

WAC 197-11-960 Environmental checklist. ENVIRONMENTAL CHECKLIST

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you. 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.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1.	Name	of	proposed	project,	if	applicable:	
----	------	----	----------	----------	----	-------------	--

- Name of applicant:
- 3. Address and phone number of applicant and contact person:
- Date checklist prepared:
- 5. Agency requesting checklist:

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

7.	Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
8.	List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
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.
10	List any government approvals or permits that will be needed for your proposal, if known.
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 of this page. (Lead agencies may modify this form to include additional specific information on project description.)
	Industrial wood antake) during construction and when the project it, completed? If energy describe and give approximate quantities if known
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
	474

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.

TO BE COMPLETED BY APPLICANT

EVALUATION FOR AGENCY USE ONLY

B. ENVIRONMENTAL ELEMENTS

1. Farth

- 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)?
- 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 prime farmland.
- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.
- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

2. Air

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
- c. Proposed measures to reduce or control emissions or other impacts to air, if any:



EVALUATION FOR AGENCY USE ONLY

3. Water

a. Surface:

- 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.
- 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.
- 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.
- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
- 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.

b. Ground:

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.
- 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.
- c. Water runoff (including stormwater):
 - 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.
 - 2) Could waste materials enter ground or surface waters? If so, generally describe.
- d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

EVALUATION FOR AGENCY USE ONLY

4. Plants	
a. Check or circle types of vegetation found on the site:	
deciduous tree: alder, maple, aspen, other	
evergreen tree: fir, cedar, pine, other	
shrubs	
grass	
pasture	
crop or grain	
wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other	
water plants: water lily, eelgrass, milfoil, otherother types of vegetation	
other types of vegetation	
b. What kind and amount of vegetation will be removed or altered?	
1) What hoes of noise exist in the area which was affect on a series	
c. List threatened or endangered species known to be on or near the site.	
The state of the s	
d. Proposed landscaring was a facility of mass would be created by or associated with the pro-	
d. Proposed landscaping, use of native plants, or other measures to preserve or enhance	
vegetation on the site, if any:	
5. Animals	
a. Circle any birds and animals which have been observed on or near the site or are known to	he
on of fleat the site.	~ `
birds: hawk, heron, eagle, songbirds, other:	
mammals: deer, bear, elk, beaver, other:	
fish: bass, salmon, trout, herring, shellfish, other:	
b. List any threatened or endangered species known to be on or near the site.	
, and an arrangered species known to be on or near the site.	
c. Is the site part of a migration route? If so, explain.	
d. Proposed measures to preserve or enhance wildlife, if any:	
a. Proposed measures to preserve of enhance wildlife, if any:	
6. Energy and natural resources	
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. That is the purpose comprehensive plan descendent of the sent	
h Would your project affect the notential was affect the	
b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.	
, g, dosonbo.	
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:

EVALUATION FOR AGENCY USE ONLY

7. Environmental health

- 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.
 - 1) Describe special emergency services that might be required.
 - 2) Proposed measures to reduce or control environmental health hazards, if any:

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?
 - 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.
 - 3) Proposed measures to reduce or control noise impacts, if any:

8. Land and shoreline use

- a. What is the current use of the site and adjacent properties?
- b. Has the site been used for agriculture? If so, describe.
- c. Describe any structures on the site.
- d. Will any structures be demolished? If so, what?
- e. What is the current zoning classification of the site?
- f. What is the current comprehensive plan designation of the site?
- g. If applicable, what is the current shoreline master program designation of the site?
- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.
- i. Approximately how many people would reside or work in the completed project?

EVALUATION FOR AGENCY USE ONLY

- j. Approximately how many people would the completed project displace?
- k. Proposed measures to avoid or reduce displacement impacts, if any:
- I. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
- c. Proposed measures to reduce or control housing impacts, if any:

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?
- b. What views in the immediate vicinity would be altered or obstructed?
- c. Proposed measures to reduce or control aesthetic impacts, if any:

11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
- b. Could light or glare from the finished project be a safety hazard or interfere with views?
- c. What existing off-site sources of light or glare may affect your proposal?
- d. Proposed measures to reduce or control light and glare impacts, if any:

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?
- b. Would the proposed project displace any existing recreational uses? If so, describe.

EVALUATION FOR AGENCY USE ONLY

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

13. Historic and cultural preservation

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.
- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.
- c. Proposed measures to reduce or control impacts, if any:

14. Transportation

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.
- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?
- c. How many parking spaces would the completed project have? How many would the project eliminate?
- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).
- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.
- g. Proposed measures to reduce or control transportation impacts, if any:

EVALUATION FOR AGENCY USE ONLY

15. Public services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.
- b. Proposed measures to reduce or control direct impacts on public services, if any.

16. Utilities

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

C. SIGNATURE

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:	
Date Submitted:	

EVALUATION FOR AGENCY USE ONLY

D. SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (do not 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 those questions he access of the of v or at eral

activities likely to result from the proposal	, would affect the item at a greater intensity or implemented. Respond briefly and in general
How would the proposal be likely to increase di storage, or release of toxic or hazardous substant	scharge to water; emissions to air; production, ces; or production of noise?
Proposed measures to avoid or reduce su	uch increases are:
2. How would the proposal be likely to affect plant	s, animals, fish, or marine life?
Proposed measures to protect or conserv	e plants, animals, fish, or marine life are:
3. How would the proposal be likely to deplete end	ergy or natural resources?
Proposed measures to protect or conserve	e energy and natural resources are:
4. How would the proposal be likely to use or affect areas designated (or eligible or under study) for go wilderness, wild and scenic rivers, threatened or e cultural sites, wetlands, floodplains, or prime farmly	overnmental protection; such as parks, indangered species habitat, historic or

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



EVALUATION FOR AGENCY USE ONLY

	AGENCY USE ON
would allow or encourage land or shoreline	ct land and shoreline use, including whether it uses incompatible with existing plans?
Proposed measures to avoid or re-	duce shoreline and land use impacts are:
6. How would the proposal be likely to incre	ease demands on transportation or public
Proposed measures to reduce or r	OSCIONA to such demand(s) and settled to the
reposed medadies to reduce of t	
7. Identify, if possible, whether the proposa requirements for the protection of the envir	Il may conflict with local, state, or federal laws or onment.

ID-EC98.1

APPLICANT ENVIRONMENTAL CHECKLIST

The following information must be provided to and approved by the Department of Energy (DOE) before a contractual document can be awarded. Complete and correct information expedites the review process.

SECTION A: Project Title:	asible, to reduce the use of	
Applicant Organization:	ed reduced to the most	
Applicant Organization Contact (Usually the P.I.):	to tonic materials (both to the	
Telephone Number:	U.F.	
SECTION B: Attach a complete and concise descrip and need and enough information so that a verificat DOE to make the proper NEPA determination.	tion of the impacts can be performed.	
SECTION C: SOURCES OF IMPACTS: WOULD ANY OF THE FOLLOWING? (If yes, please provide checked for question 15, indicate how much waste we place to handle disposal.)	de brief explanation. For example, if	yes is
YES NO 1. Air Emissions 2. Asbestos 3. Work Force Adjustment	12. Petroleum Storage 13. Solid Waste 14. PCBs	S NO
	17. Mixed Waste 18. Radiation Exposure	
8. Water/Well Use 9. Water Course Modification 10. Pesticide Use 11. Chemical Use/Storage	OI CED CL I D CD I C'	
SECTION D: CATEGORY EVALUATION CRITE 1. Require cultural, historical, or biological clearances? 2. Impact sensitive resources identified in Item 1 above 3. Require or modify federal, state, or local permits, ap 4. Create hazardous, radioactive, PCB, or mixed waste 5. Require siting, construction, or modification of a RC	P. Describe the mitigation plan. provals, etc.? for which no disposal is available?	YES NO
SECTION E: CERTIFICATION To the best of the a responses given above are complete and accurate, and anytime after award and during the course of performance.	applicant's knowledge at the time of sign should new issues or concerns arise or nee, the applicant will alert DOE imme	changes occur
APPLICANT SIGNATURE & TITLE	DATE	
FOR DOE	USE ONLY	

FOR	DOE USE ONLY
NEPA Doc Number:	Solicitation #:
NEPA CX Applied:	Contract Specialist:
Approved:	Project Manager:

ACM COLOR	Yes/No
Eco-Efficiency	
1. Materials use:	
a. Are materials planned for use in this project the most renewable, to the	
extent possible?	
b. Are recycled materials used, where possible, to reduce the use of	
newly-manufactured materials?	
 c. Is the overall amount of all materials used reduced to the most 	
economically and practical extent possible?	
2. Material toxicity: given a choice, were the least toxic materials (both to the	
environment and human health exposure) selected?	
3. Water use:	
a. Is the usage of water reduced to the lowest volume possible?	
b. Is the output water used from this project recycled?	
c. Is recycled water used to the extent possible?	
4. Energy use: has the energy consumption per unit of output been reduced to the	
owest extent possible?	
5. End-of-life considerations: have end-of-product life considerations been	
considered?	
a. Recycle	
b. Reuse	
c. Recondition/refurbish	
d. Remanufacture	
e. Responsibly dispose (state method)	
f. Retrofit with upgrades	
Environmental	
1. Will there be any increase in air emissions, any new source of air emissions or	
any increase in episodic emission potential?	
2. Will there be any increase in materials discharged to the process or clean	
sewer systems?	
3. Are there any plans to dispose of wastewater by underground injection?	
4. Are there any or will there be any wastes generated, stored, treated, or	
disposed of at the project that that would be classified special?	
5. Is there presently any soil or groundwater contamination at the project site?	
6. Does the project increase the potential to contaminate soil or groundwater?	
7. Will underground storage tanks be used for this project?	
Safety and Health Y/N	
1. Will flammable, toxic, corrosive, reactive or otherwise hazardous substances be	
transported, stored, processed or produced at the project site?	
2. Are extremes of pressure (500 psig) or temperature (400°C) present anywhere	
in the new facility?	
3. Will this project use any new process technology?	
4. Will this project adversely affect reliability of existing facility?	
5. Are any process intermediates isolated that are not included on the governing	
chemical control law (TSCA in US) inventory listing for the location?	
Product Safety	
1. Are any new products manufactured or will any existing products be directed	
toward a new market?	
2. Will distribution schemes cause new or additional public exposures to this	
product?	
3. Will this project introduce new contaminants, increase existing hazardous	
contaminant level or otherwise increase the hazardous nature of the products?	
contaminant level of otherwise increase the nazardous nature of the products?	T .

Project: Locations:	100	NO	: Diner	t-terminant
Environmental Checklists			1	
Environmental – General	V	Ma	041	
Does the geographic location of the project present any	Yes	No	Other	Comments
potential interstate or international air pollution liabilities?		-		
Does the geographic location of the project present any		-		
potential interstate or international water (surface or				
groundwater) pollution liabilities?				
Is process technology design derived from either proven				
commercial-scale facilities or six months or more of				
successful pilot scale operations?				
4. Is there a high degree of confidence that the predicted			ļ	
composition and quantities of air and water pollutants and				
residues generated from operation of the project have not				
emitted any chemical more toxic than those documented and				
have not understated any quantities by more than 50%?				
5. Are there any residuals from either environmental				
discharges or disposed wastes resulting from operation of				
the completed project believed to be a potential subject of				
future governmental rule-making that could cause future				
unfavorable economics or publicity for the project, location,				
or corporation?				
6. Will the design and operation of the project be consistent				
with the location's waste and release reduction programs?				
7. Has the design inventory of hazardous and toxic				
chemicals been minimized to the extent practical?				
8. Will the facility be staffed, or have readily available, personnel fully aware of the environmental consequences of				
operation problems and trained to implement timely and				
proper response actions?				
propor responde decione:	V	T No.	T Miles	
Have all significant air emissions (point, fugitive and				
secondary) been identified and described with respect to				
quantity, composition and their ultimate treatment? (Consider				1
start-up/shutdown and abnormal operating conditions)				
2. Do proposed air emissions contain any material classified				
as hazardous under Federal, State or local regulations (pay				
special attention to Hazardous Air Pollutants [HAPs]				
identified under clean Air Act Amendments)				
Does the project design satisfy the design objectives for				
both routine (continuous & intermittent) emissions and				
episodic air emissions? (Pay special attention to known and				
suspected carcinogens and acutely toxic emissions)				
4. Will proposed air emissions require Prevention of				
Significant Deterioration (PSD) review and/or New Source				
Review?				
5. Do any proposed air emission sources require new air				
control systems or upgrading of existing systems? 6. Are the air pollution control systems designed to meeting				-
application governmental technological levels and corporate				
requirements?				
7. Are there any air pollution control systems that have not				
been reviewed to assure conformation with Federal, State or	7.0	110	- Cura	Lommen
local regulations?				

Environmental – Surface/Groundwater Protection	Yes	No	Other	Comments
Have all significant water discharges been identified and				
described with respect to quantity, composition and their				
ultimate treatment and/or disposal? (Consider start-				
up/shutdown and abnormal operating conditions)				
Do proposed wastewater discharges contain any				
substances on EPA's priority pollutant list?				
3. Will wastewater discharges be restricted by water quality				
limits of the receiving stream or by the capacity of a Publicly-				
Owned Treatment Works (POTW)?				
Does the operation handle any compounds have EPA				
Reportable Quantities (RQ's)?				
Are adequate leak/spill prevention and detection				
measures provided?				
6. Will secondary containment be provided for all new and				
modified oil and chemical handling or storage areas?				
7. Are modifications to an existing or an entirely new Spill				
Prevention, Control and Countermeasures (SPCC) Plan				
required?	1			
8. Will underground storage tanks be used for this project?				
9. Are there any plans to dispose of wastewater by				
underground injection?	Yes	No	Other	Colomous
10. Do any proposed wastewater discharges require new				
control systems or upgrading of existing systems?				
11. Are the water pollution control systems, underground				
storage tanks and injection wells designed to meet				
applicable governmental technological and corporate				
requirements?				
12. Are there any containment, storage, treatment or				
disposal design plans that have not been reviewed to assure				
conformance with Federal, State or local regulations?				
Environmental – Waste Management	Yes	No	Other	Comments
Have all significant special wastes been identified and	1.00		Otiloi	Comment
described with respect to quantity, composition and their			1	
ultimate treatment and/or disposal? (Consider start-	1			
up/shutdown conditions and abnormal operating conditions)				
Have all special waste conservation/ minimization	1			
alternatives been reviewed and used where feasible?				
Are the off-site locations that are managing special wastes				
approved in accordance with corporate policy?				
Has land application of special wastes been minimized to			-	-
the extent possible?				
Are any proposed wastes classified as hazardous under			-	
Federal, State or local regulations?				
rederal, otate of local regulations?				
6. Will the project necessitate the storage, treatment or				
6. Will the project necessitate the storage, treatment or disposal of hazardous waste, either on-site or off-site?	-			
6. Will the project necessitate the storage, treatment or disposal of hazardous waste, either on-site or off-site? 7. Are the hazardous waste storage, treatment and disposal				1
6. Will the project necessitate the storage, treatment or disposal of hazardous waste, either on-site or off-site? 7. Are the hazardous waste storage, treatment and disposal systems designed to meet applicable governmental				
6. Will the project necessitate the storage, treatment or disposal of hazardous waste, either on-site or off-site? 7. Are the hazardous waste storage, treatment and disposal systems designed to meet applicable governmental technological levels and corporate requirements?				
6. Will the project necessitate the storage, treatment or disposal of hazardous waste, either on-site or off-site? 7. Are the hazardous waste storage, treatment and disposal systems designed to meet applicable governmental technological levels and corporate requirements? 8. Are there any storage, treatment or disposal design plans				
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6. Will the project necessitate the storage, treatment or disposal of hazardous waste, either on-site or off-site? 7. Are the hazardous waste storage, treatment and disposal systems designed to meet applicable governmental technological levels and corporate requirements? 8. Are there any storage, treatment or disposal design plans that have not been reviewed to assure conformance with Federal, State or local regulations?				
6. Will the project necessitate the storage, treatment or disposal of hazardous waste, either on-site or off-site? 7. Are the hazardous waste storage, treatment and disposal systems designed to meet applicable governmental technological levels and corporate requirements? 8. Are there any storage, treatment or disposal design plans that have not been reviewed to assure conformance with	Yes	No	Other	Comments

wastewater, storm water, solid/hazardous waste permits or				
regulations, or received any pollution-related citizen				
complaints in the past 12 months that may affect the project? Describe impact.	700	No	Cther	Commont
Are there any Compliance Orders or other legal actions				
that may affect the project? Describe impact.				
3. Will the predicted air and water discharges from operation				
of the completed project comply with all applicable				
governmental rules? List significant applicable regulations?				
4. Will the planned storage, treatment and disposal of				
hazardous wastes comply with all applicable governmental				
rules? List significant applicable regulations?				
5. Have all required air, wastewater, storm water and				
solid/hazardous waste permits and permit modifications been				
identified? List new permits/modifications needed.				
6. Are there any other environmental permits needed or	1			
which require modification (example: underground storage				
tanks, Corps of Engineers, wetlands)? List new				
permits/modifications needed.				
7. Are any delays in construction or operations start-up likely				
due to permitting or other regulatory requirements?				
Environmental – Site Condition	Yes	No	Other	Comments
1. Is background air quality monitoring data available for the				
past 12 months at the project site?				
2. If there are proposed wastewater or storm water				
discharges to surface water, is background water quality				
data available?	Yes	No	Daher	Communication
3. Is the proposed project site to be located within ½ mile of				
any existing or potential surface or underground source of				
drinking water?				
4. Is there presently any known or suspected soil and/or				
groundwater contamination at the project site?				
5. Are there any active waste storage, treatment or disposal				
facilities located on the project site?				
6. Are there ongoing or past site investigations and/or				
remedial actions for present and/or past solid waste units				
that pose (d) a significant threat of release of hazardous				
constituents to the environment at the project site?				
7. Is there any material containing polychlorinated biphenyl				
(PCBs) located on the project site?	1			
(PCBs) located on the project site? 8. Are underground tanks located on the project site?	1			

Safety & Health				
Safety & Health - General	Yes	No	Other	Comments
1. Will toxic, flammable, corrosive or otherwise hazardous				
substances be transported, stored, processed or produced in				
facilities affected by this project?				
2. Will high noise levels (85 dBA and higher), radiation				
sources, heat stress, repetitive motion, or other new or				
unusual physical hazards be introduced by this project?	Yes	Min	Differ	Countries
3. Could any of the substances handled in facilities affected				
by this project cause an explosion if heated, contaminated,				
concentrated or otherwise mishandled?				
4. Is all necessary safety and health data known for each				
substance handled? (Include isolated intermediates)				
5. Do up-to-date Material Safety Data Sheets exist for each				
substance handled? (Include any stream or mixture handled				
or stored)				
6. Will this project introduce new chemicals that are highly				
reactive with other chemicals already handled at the				
location?				
7. Is there potential for mixing of incompatible chemicals in	Ym	No	Other	Gomments
process, storage or waste disposal areas (in/outside				
boundaries) of this facility?				
8. Are operational safety standards required, and will they be				
prepared before startup?				
9. Are inventories of hazardous or toxic materials minimized?				
Safety & Health - Compliance	Yes	No	Other	Comments
1. Will any new safety or health programs be required to				
meet regulations?				
2. Have all Department of Transportation (or equivalent)				
requirements been identified for substances that will be	1			
shipped either to or from the plant location?				
3. Are there any proposed changes to safety and health				
regulations that could affect design or operation of project or				
facilities?				
4. Will the following be required to comply with safety and				
health regulations:				
a. Monitoring of employee exposure?				
b. Ventilation, noise suppression or other				
engineering controls?				
c. Special personal protective equipment?				
d. Special medical examinations or a medical				
surveillance program?				
e. Special operating or maintenance procedures?				
f. Regulated areas?				
5. Will employees need supplemental training beyond normal				
corporate or business programs to assure safe operation?				
6. Do any State or local regulations supersede Federal				
safety and health regulations?				
7. Are all chemicals that will be handled included in the				
governing chemical control law (TSCA in US) inventory or				
equivalent (including isolated intermediates)?				
8. Will this project involve installation or removal of asbestos				
or polychlorinated biphenyl (PCB) materials?				
Are new occupied buildings or expansions of existing			1	

occupied buildings planned?				
10. Will occupied buildings be affected by process changes				
that: Washington and said adultion saidy that				
a. Decrease the separation distance?				
b. Increase the hazard classification?				
c. Significantly increase the risk above current level		-		
(i.e., process complexity)?				
11. Will contractors be used for on-site work?				
Safety & Health – Public Impact	Yes	No	Other	Comments
Will emergency relief devices that protect facilities be				
affected by this project discharge directly to the atmosphere?	100	MR	Other	Continuent
Could releases from the emergency relief devices that				
discharge directly to the atmosphere have an adverse impact				
on the health or safety of the public?				
3. Could a process upset or other emergency situation (fire,				
explosion, spill, etc.) occur in the project facilities that could				
have an adverse impact on the public?				
4. In the event of the release of toxic chemicals from facilities	Yes	NO	Other	Committee
affected by this project, would existing or planned monitoring,				
detection, and/or alarm systems be adequate?				
Safety & Health – Facility Design	Yes	No	Other	Comments
Will extremes of temperature or pressure (i.e.,				
temperatures above 400°C or pressures above 500 psig)				
exist in facilities affected by this project?				
2. Will there be any new ignition sources associated with this				
project?				
3. Will recognized industry practices be followed in the layout				
of the facility?				
Will the pressure vessels, storage tanks, safety valves,	11166		41 10 11 4 10	
piping, values and fittings that are part of the project facilities				
conform to applicable industry codes and standards and				
Federal, State and local laws and regulations?				
Will all normal project safety and health reviews be	Yes	Na	Other	Comment
performed?				
6. Is there a need for a Process Hazard Analysis (PHA) of				
the facilities?				
7. Could the loss of any utility that supplies project facilities				
create a possible hazardous substance?				
8. Will flammable gas detectors be installed as part of this				
project?				
For facilities affected by this project, is any reaction				
sufficiently exothermic to result in a runaway reaction under				
any operating conditions that could occur?				
10. Does this project introduce a new process or incorporate				
process technology new to this location?				
11. Are process monitoring and control devices adequate to				
prevent upsets leading to hazardous operation or toxic				
releases?				
12. Would increased use of automation or advanced process				
control effectively reduce the risks of employee exposure?				
13. Will water spray protection be provided for processing,				
storage and distribution areas in accordance with corporate				
criteria?				
14. Are fire water supplies and distribution systems adequate				
to provide sufficient fire water to this facility?		i .	1	

15. Could this project adversely impact on or be impacted by other facilities?	Yes	No	Officer	Comments
16. Were there any areas considered for inherent safety that were rejected?				
17. Were there areas where inherent safety was incorporated? (If yes, where?)				
18. Have seismic zones been considered and appropriate design requirements used?				
19. Are considerations of ergonomic principles included in the facility and process design?				
Safety & Health - Emergency Response	Yes	No	Other	Comments
1. Will additional fire and emergency response equipment, personnel or procedures be required as a result of this project?				
2. Will any changes to the location's Community Emergency Response Plan (evacuation, etc.) be required as a result of this project?	Yes	No	Other	Comments
Safety & Health – ERMS Compliance	Yes	No	Other	Comments
1. Will this project change the ERMS Hazard Ranking Model (HRM) data?				
2. Has a consequence or other type analysis been conducted to evaluate potential for off-site fatality events?				
3. Have there been prior Risk Reviews done for this facility?				
4. Is a Risk Review required for this project (e.g., does off- site fatality potential exist?	Yes	No	Other	Comments
5. Have all scenarios identified by a Risk Review or Third Tier Study been mitigated as required by ERMS?	1			

E& H Screening Checklist				
Product Safety – General	Yes	No	Other	Comments
1. Will any of the products from this facility be marketed as a consumer product?				
2. Will any of the products be used as an intermediate by this corporation or others to formulate a product that will be marketed as a consumer product?				
3. Are any of the products intended for use in the manufacture of food, drugs or their packaging materials?				
4. Are any of the products classified by the Food and Drug Administration as medical devices?				
5. Are any of the products subject to regulation under:				
Federal Insecticide, Fungicide, Rodenticide Act (FIFRA)				
b. Toxic Substances Control Act (TSCA)				
c. Consumer Product Safety Commission				
d. Federal Food, Drug and Cosmetic Act				
6. Are any of the product classified as toxic, explosive, flammable or otherwise hazardous?				
7. Can any product harm persons or property in normal use or any potential misuse?				
8. Does the product, or any component in the product, appear on any listing of chemicals requiring customer, employee or public notification?				

3. Will communication with any regulatory agency be

Product Safety - Design	Yes	No	Other	Comments
1. Has the product undergone a product safety risk analysis	0.00	PL-N	191.101	
to evaluate downstream exposure/health risk potential?	110/81	hre		
2. Are any Premanufacture Notifications necessary for any of				
the products or intermediates?				
3. Does any product require certification or testing by				
Federal, State or local governmental agencies?		1 1 24		The Control of the Co
4. Does any product require testing or approval by a		mil	ACL OF D	e croyect
nationally recognized testing agency?			do de	
5. Will this project introduce new contaminants, increase				
existing hazardous contaminant level, or otherwise increase			Management of the same	
the hazardous nature of the product?				
6. Is this a new or modified product, or a product directed				
toward a new market?				
Product Safety - Distribution	Yes	No	Other	Comments
1. Will distribution cause new or additional public exposure to				
this product?				
2. Have all regulatory requirements for shipping the products				
been identified?				
3. Has all labeling and Material Safety Data Sheet data been				
obtained for all products?				
4. Will any special handling, storage or shipping equipment				
or procedures be required for any of the product?				
Product Safety – Image	Yes	No	Other	Comments
1. Is there any history of product liability with any of these				
products or similar products?				
2. Could any of the products be viewed by the public or				
regulatory agencies as presenting an unacceptable risk to				
health, safety or the environment?				
3. Will communication with any regulatory agency be				
required regarding the safety of any of the products?				

Canter & Kamath's Generic Questionnaire Checklist for Addressing and/or Summarizing the Cumulative Environmental Impacts of Projects

Environmental Category		Will the project result	Will the cumulative
		in	impacts of the project
			result in
		Yes/Maybe/No Comments	Yes/Maybe/No Comments
Physica	l Environmental Indicators		
	Fractures on geologic strata?		
•	Landslides and landsubsidence?		
ě	Seismic activity?		
	Compaction and settling?		
•	Deposition (sedimentation, precipitation)?		
•	Erosion of soils due to increased wind,		
	floods, removal of vegetation?		
•	Impact to unique physical features (due to		
	destruction, modification or covering)?		
•	Impact to land classified as prime or unique		>
	farmland?		
•	Change existing topography (ground		
	contours, shorelines, river banks)?		
•	Extensive use of existing mineral resources		
	(mining, oil and gas)?		
•	Disposal of construction debris?		
•	Excessive fields and radiation (magnetic		
	fields, electromagnetic radiation)?		
•	Changes in hydrology (water table, gradient,		
SOIK Y	infiltration)?		
Air/Clin	natology		
•	Impact on air quality due to gases,		
	particulates and fugitive dusts?		
•	Air pollutant emissions which will exceed		
	federal or state standards or cause		
	deterioration of ambient air quality?		
•	Objectionable odors?		
Hitzan	Changes in climate due to alteration in		
	humidity, air movement or temperature? Emissions of hazardous air pollutants		
•	(VOCs, SOGs and other toxic regulated		
	under the Clean Air Act)?		
	Acid rain?		
Water	, tota raili:		
•	Changes in the quality and quantity of		
	surface water?		
	Discharge of wastewater to potable drinking		



	water systems?	
	Alter flows due to construction?	
	Increase tendency to flooding?	
•	Salinate water bodies?	
	Unsightly appearance of water bodies?	
	Eutrophication ?	
	Increase in temperature and turbidity due to	
	impoundment?	
	Destruction of streams?	
	Considerable effects on conventional water	
	quality parameters (that is, DO, fecal	
	coliforms, pH, BODs, NO ₃ , PO ₄ ,	
	temperature deviation, turbidity, total	
	solids)?	
	Alter the rate or direction of ground water	
	flow?	> "
	Alter the quantity and quality of ground	
	water?	
	Introduce pollutants to ground water due to	
	land application of waste?	
	Contamination of public water supplies?	
	Impact to recharge area or recharge rate?	
	Make ground water vulnerable to	
	contamination (due to wells, boreholes,	
	cracks, etc)?	
	Impact on or construction in wetland or	
	inland floodplain?	
	Thawing snow, ice and permafrost?	
	Impact to wellhead protection zone?	
	Impact on fisheries?	
Solid W		
	The second of th	
•	Generation of significant solid waste?	
•	Impact existing landfill capacity?	
Noise		
•	Increase existing noise levels?	
•	Expose people or wildlife to excessive	
	noise?	
•	Vibrations?	
Hazard	ous Waste	
	Generation, transport, storage or disposal of	
	regulated hazardous waste?	
Biologic	cal environment flora	
	Change to the diversity or productivity of	
	vegetation (namely trees, shrubs, grass,	
	crop, microflora and aquatic plants)?	
THE STATE OF	VAC 143	
i	Impact to riparian habitat?	
	Impact to rare or endangered plant an - : 0	
- 2	Impact to rare or endangered plant species? Introduce new plant species into area or	

	create a barrier to the normal replenishment of existing species? Reduce acreage or create damage to any	
	agricultural crop?	
-	impact lorests?	
Fauna	Charge scales potent patients (at the	
•	Reduce the habitat or numbers of unique,	
	rare or endangered species of birds or animals?	
•	Affect to land animals, benthic organisms, insects and microfauna?	
•	Attraction, entrapment or impingement of animal life?	
•	Impact to existing fish, wildlife habitat, and nesting areas?	
	Introduction of new species of animals into	
	an area or create a barrier to the migration	
	of movement of animals or fish?	
•	Cause emigration resulting in human-wildlife	ľ
	interaction problems?	ľ
•	Affect to food chain?	
Socioe	conomic environment landuse	
•	Substantial altering existing or proposed	
	land use of an area?	
•	Impacts to wilderness qualities and open-	
	space qualities? Impact to destruction of wetlands?	_
	Impact to Special Management Areas	X.
·	(SMAs)?	
Recrea		
	Impact to hunting, fishing, boating,	
	swimming, camping and hiking, picnicking	
	and holiday resorts?	
Aesthe	etics	
•	Impact to scenic views and vistas?	
	Impact to landscape design?	
	Impact to unique physical features?	
•	Impact to parklands and reserves?	
•	Impact on monuments?	
•	Presence of misfits (out of place)?	

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archaeological, cultural and paleontological

Health hazards or potential health hazards? Exposure of people to potential health

sites or objects?

Health and safety

1 10	
hazards?	
Risk of accidents due to explosion, release	
of oil, radioactive materials, toxic	
substances, etc.?	
Cultural patterns	
Change existing cultural patterns (or life)	
style)?	
Local services	
Need for new or altered services in any of the	
following areas:	
Health care?	to time and space across. The project that the
Police?	prophical artenit of the if pacts may be either the
5.41 54 (Substitution)	s away
Education?	
	5
Churches?	Source: Carrier & Kamust, 1798
Child care?	
Other services?	
Public utilities	
Need for a new or alterations to the following utilities:	
Electricity?	
Natural gas?	
Potable water?	
Wastewater treatment and disposal?	
Stormwater control?	
Solid waste collection and disposal?	
Service of the Control of the Contro	
Communication system? Transmission pictures?	
Transmission pipelines?	
Other utilities?	
Population	
Alteration of location or distribution of	
human population in the area?	×
Change to demographic characteristics in	
the area?	
Change to housing and households?	
Economic	
Adverse effect on local or regional	1
economy?	
Changes in per capita income?	
Changes in the standard of living>	
Employment?	
The same same same same same same same sam	
Transportation	
Change to existing rail, road, waterway	ž
and/or air traffic?	
Increase in movement?	
 Increase in accident and traffic hazards? 	
 Affect to transportation network? 	
Construction of new roads?	

•	Change in existing patterns of movement of men and materials?	
Natural	resources	
	Deplete natural resources?	
•	Destruction of natural resources?	
Energy		
	Substantial use of fuel or energy?	
	Increase in demand for existing sources of	
	energy?	

Note: Due consideration has to be given to the time and space scales. The project may have short-term or long-term impacts, and the geographical extent of the impacts may be either the vicinity of the project or considerable distances away.

Source: Canter & Kamath, 1995.

APPENDIX G:

Scoring Guidelines for Environmental Evaluation Matrix Tool