

Appendix C

Consolidated Comments by Topic

This page intentionally left blank.

Consolidated Comments by Topic

Table C-1 is a consolidated list of all of the comments received by EFSEC during preparation of the Potential Site Study for the proposed BP Cherry Point Cogeneration Project.

Individually listed comments do not necessarily represent the exact words given by the commentor. Neither the agency meeting nor the open house/public meeting held on May 2, 2001 were tape-recorded. No one recorded the exact words exchanged at these meetings. As such, the comments in Table C-1 summarize the overriding concern of the commentor. In addition, no effort has been made to eliminate duplicate comments provided by different commentors. Rather, the number of times the same comment is listed indicates the overall level of concern for this issue, though not the significance of the issue in terms of regulatory compliance.

The comments are listed by topic and sometimes by subtopic (e.g., “Project Proposal” or “Air – impacts”). Topics are generally those identified as elements of the environment in the SEPA or NEPA regulations (e.g., Earth, Air, and Water). Potential subtopics include: “existing” for questions concerning existing conditions, “method” for questions concerning the proposed methods of analysis, “impacts” for questions concerning potential environmental impacts, and “mitigation” for concerns about potential mitigation measures.

Table C-1 also identifies the source of the comment. Each individual U.S. or Canadian agency or Indian tribe has been listed in full or by an acronym. If the source of the comment is unknown, but was verbally presented at a specific meeting, then the meeting is given as the source of the comment. For comments submitted by members of the public, the word “Public” is shown. The specific names of individuals are not provided in this table. Copies of written comments submitted to EFSEC are provided in Appendix B. Comments also may be delivered verbally at the agency meeting, open house, public meeting, agency or tribal coordination meetings, or during telephone interviews.

The purpose of providing this voluminous list of comments is to give the reader an understanding of the breadth and depth of both agency and public concerns for the proposed project. This list of comments is not meant to represent a comprehensive list of issues that the project proponent, BP, must address in its application for project approval. Rather, the issues EFSEC feels the project proponent should address are described in general in Chapter II and more specifically in Chapter III.

This page intentionally left blank

Table C-1. Consolidated Comments by Topic

Subject	Source	Comment
Air - existing	Agency Mtg.	Would ammonia be stored on the site?
	Agency Mtg.	Has BP conducted any studies of existing ambient air quality monitoring?
	Agency Mtg.	Does Ecology have any existing air monitoring stations located nearby the BP refinery?
	Envir. Canada	The immediate interests of Canadians will be confined to air quality, particularly within the Fraser Valley.
	Envir. Canada	The Fraser Valley airshed has been identified as sensitive because of meteorological and topographical features as well as existing emissions.
	Envir. Canada	A summary of current overall air emissions on an annual basis should be provided for BP's existing Cherry Point operation and any directly associated facilities, broken out into the full range of key criteria and toxic pollutants as well as greenhouse gas components.
	Greater Vancouver Regional District (GVRD)	What is the prevailing wind direction in the project area?
	GVRD	The Georgia Coast Cascade air basin bounded by the Coast Mountains, the Cascade Mountains, and the Strait of Georgia/Puget Sound is a region of high air pollution potential.
	Lower Fraser Valley Air Quality Coordinating Committee (LFVAQCC)	What level of ambient air monitoring is being performed?
	LFVAQCC	Canada has not been attaining its air quality goals and is concerned about background contributions from U.S. sources.
	LFVAQCC	Air quality data are available for Canada and the GVRD and should be used for this study.
	LFVAQCC	The primary concern for air quality on the Sumas 2 Project was ozone and PM-2.5.
	Nooksack Tribe	How can the Canadians be complaining about potential air pollution impacts of proposed power plants when power plants have recently been constructed in Canada?
	NWAPA	There is only one ozone monitor in the NWAPA region and it is located at BPA's Custer Substation (about 5 miles northeast of the refinery site).
	Public	This is a time when world leaders have acknowledged the importance of reducing harmful Greenhouse Gas emissions. The recent change of mind by the U.S. Administration with regards to the Kyoto Agreement has prompted a worldwide response.
	Public	The Fraser Valley air quality is some of the worst in Canada.
	Public	Global warming is a fact, and scientific evidence warns that the effects are greater than previously feared.
	Public Mtg. - C	Air pollution to Canada. Commentor is disappointed U.S.'s commitment to Kyoto was dropped by President Bush. He is concerned about global warming and he is glad to see that BP is proposing CO ₂ offsets.
	Public Mtg. - C	Air quality in the Fraser River Valley is affected by City of Vancouver traffic emissions.
	Public Mtg. - Q	Has BP conducted any studies of existing ambient air quality monitoring?
Public Mtg. - Q	Does Ecology have any existing air monitoring stations located close to the BP refinery?	
Public Mtg. - Q	What are the current air emission levels from the refinery, including fugitive emissions?	
S. Fraser Health	What are the current air emission levels from the refinery, including fugitive emissions?	

Table C-1. Continued

Air - impacts	Agency Mtg.	Will cumulative air impacts be evaluated?
	Agency Mtg.	What would be the geographic area evaluated for potential air impacts?
	Agency Mtg.	Would the evaluation of potential air impacts look at other potential new sources of air pollution?
	Agency Mtg.	Would existing refinery boilers be taken "off-line" if the power plant were constructed?
	Agency Mtg.	Would the use of the proposed power plant result in a net reduction in total air pollutants?
	Agency Mtg.	Would the power plant itself offset air emissions?
	Blaine	What would be the characteristics of air emissions from the cogeneration plant under a full range of operating conditions, including the use of alternative fuels?
	Ecology	Regional haze due to ammonia slip has been identified as a concern to both Canada's Greater Vancouver Regional District and the U.S. federal land managers and should be addressed by BP for the proposed energy plant.
	Ecology	Ecology is concerned about potential air pollution impacts from the natural gas pipeline compressor stations.
	Ecology	Ecology would like BP to clearly outline potential greenhouse gas impacts and mitigation as they relate to the proposed cogeneration facility.
	Envir. Canada	A summary of air emissions expected to result from the proposed cogeneration facility should be provided, broken down into the pollutants of concern.
	Envir. Canada	We have an interest in understanding the greenhouse gas production implications of the proposed project, since this is a matter of international concern at the present time and public interest in this issue is to be expected.
	Envir. Canada	Provide a summary of any offsetting air emissions reductions, which will be achieved onsite at the overall facility.
	Envir. Canada	Provide a summary of any proposed offsite air emission mitigation proposals, including any proposed mitigation of CO ₂ and other greenhouse gas emissions.
	Envir. Canada	Based on the previous four items, provide a summary of predicted overall air emissions following completion and commissioning of the proposed cogeneration facility, with a summary of net increases or reductions of key pollutant emissions by comparison with the present situation.
	Envir. Canada	Compare project emissions to inventoried emissions from Whatcom County, the Greater Vancouver Regional District, the Fraser Valley Regional District, and the combination of these three areas.
	Envir. Canada	Provide persuasive information on transportation patterns for airborne pollutants originating at the Cherry Point facility, with particular emphasis on the extent to which the revised plant could change the exiting pollutant concentrations in the Canadian and U.S. portions of the Fraser Valley airshed. This should include comparison with present loadings from BP's existing operations.
	Envir. Canada	Compare pre- and post-project peak ambient air quality concentrations with Canadian maximums, desirable and acceptable objectives, and the Canada-wide standards for particulate matter and ozone.
	Envir. Canada	Compare the proposed emission-control technologies with Canadian standards and guidelines for similar technologies.

Table C-1. Continued

Envir. Canada	Compare pre- and post-project ambient air quality concentrations in the Georgia Coast-Cascade air basin with the air quality in other communities in Washington, Oregon, and California, particularly communities that may be considered alternative sites for the facility or those that may be major markets for the electrical power. This air quality comparison should also include comparison of the air quality in the project area with air quality in major communities across Canada and communities across British Columbia.
GVRD	What will be the air pollution impacts of the energy plant?
GVRD	What will be the CO ₂ emissions from the energy plant?
GVRD	What will be the aggregate effects of air pollution from the 14 new power plants proposed in the region?
GVRD	GVRD is interested in seeing a cumulative impact analysis of air emissions of the entire airshed from the existing and proposed energy generation plants.
GVRD	Representatives of the GVRD member municipalities that are closest to the BP Cherry Point Refinery, White Rock, Surrey, and Delta, have expressed concern about the potential air quality impacts from this proposed project.
GVRD	The GVRD Board of Directors wants to ensure that this proposed facility does not compromise the air quality of communities.
LFVAQACC	What are the detailed reductions of air emissions?
LFVAQACC	Would the VOC emissions be fugitive or flared?
LFVAQACC	How much of the air pollution will come into Canada?
LFVAQACC	It is important for the wind rose to note the time of year as prevalent winds shift during the year.
LFVAQACC	Will the declining production of North Slope crude oil have an impact on the BP refinery emissions?
LFVAQACC	Would changes in refinery operations affect emissions from the combined refinery/cogeneration facility?
LFVAQCC	Are air emission transport data available?
LFVAQCC	Additional information is needed to address BP's statement that the proposed energy project would offset emissions.
LFVAQCC	The issue of ammonia slippage related to SCR technology and particular emission was raised.
Lummi Indian Nation	The Lummi Indian Nation would like to have confirmation that existing boilers will be taken off-line at the refinery.
Lummi Indian Nation	The Lummi Indian Nation would like to know how overall air quality would be affected by the project.
Nooksack Tribe	Would all applicable air pollution standards be met by the proposed cogeneration plant?
Nooksack Tribe	The Nooksack Indian Tribe is concerned about potential impacts on air quality.
National Park Service	Would the project result in any air pollution impacts from emissions on air quality-related values at the National Park Service Class I air quality areas (Olympic National Park, Mount Rainier National Park, and the North Cascades National Park)?
NWAPA	The application should provide for appropriate source testing following 40 CFR Part 60 requirements.
NWAPA	Air emission offsets should be detailed specifically by source (i.e., new solar gas turbines or from pre-turbine operations).
NWAPA	The NO _x permit limits should not be so tight as to guarantee failure. Limits of 2.0 ppm may cause the CEMS to fail the Relative Accuracy limits, so limits of 2.5 or 3.0 ppm may be more reasonable.
NWAPA	Reliability of the cogeneration plant needs to be addressed as it affects the emissions of the overall refinery, a bigger issue than the cogeneration plant by itself.

Table C-1. Continued

NWAPA	Plant design should address the reliability of the equipment. Experience with the March Point Cogeneration Plant indicates that the steam turbines may fail more often than gas turbines.
NWAPA	Does the steam input come from the steam turbines rather than the HRSG units, which could affect air pollution impacts due to time delays in changing plant operations?
Public	I feel strongly that not only is this not an appropriate site for this power plant, but that northwest Washington State is not an area where industries that produce any increase in emissions should be considered. Directly northeast of this site lies the Fraser Valley, where air quality is a major growing concern for Canadians. This proposal, no matter how environmentally sensitively portrayed, will undoubtedly contribute to greenhouse gas emissions, poor air quality in the shared airshed, and global warming. I am also concerned for the water quality in the Georgia Basin.
Public	If the demand is increased, what is the possibility of increased power plant proposals on this site and therefore increased emissions? Where are previous plants of this type, and what kind of emission output do they have? The idea of reducing emission is a desirable outcome for this development, but I would stress that the airshed in this area cannot withstand any increase. I will be interested in reports on the emission of the refinery over the past five years; I would also be interested in reports that allow BP to draw conclusions that the total of power plant and refinery would be a decrease in emissions.
Public	Compare the air pollution generated to Sumas II Project, leaving out the reductions that they estimate.
Public	Please describe the prevailing winds in the project area?
Public	Setting a precedent for other generating plants and compressor plants on or in the Cherry Point area and their total impact on air and noise pollution.
Public	What are the cogeneration plant products besides gas?
Public	I recently attended a meeting where a noise and odor complaint was voiced—clear from the north end of Birch Bay. I've lived near the refinery from 1987 at Beachwood RV Resort to starting in 1996 on Alderson Road. Personally, I'm either used to it or you really have cut down on both. I agree that it has subsided since we were at a closer point on Bay Road "Beachwood Park," but I believe you have cut it down. I know maybe and from somewhat of their comment they did not altogether know about the turn around in light of this there still must be some concern. The high stack must therefore waft gases up and over the bay only to begin to settle as they roll toward north Birch Bay and Blaine and on to dropping into White Rock.
Public	At the outside, only minimum if any coal should be used. Try to avoid any coal use. You yourself have lungs and have said natural gas is clean as possible as any entity that can be used to fire the plant.
Public	My second concern is over air quality. From our house at Sandy Point, at night we used to be able to see all three ski area lights near Vancouver. Now many nights you can only see one ski area. On many days, there is a brown haze band at foothills level from Ferndale to Bellingham. A few days a year, smog is bad enough that we can barely see Mt. Baker.
Public	Because of prevailing winds, move the plant south next to the liquid carbonics. Also, Grandview Road is the main artery for traffic and any condensate or steam will blow across the road and cause who knows what impacts.

Table C-1. Continued

Public	As Canadians, we would appreciate your including the impacts to Canada in your DEIS. I would also like to see you use SCO NO _x technology instead of SCR. With SCR you will need to use ammonia. Because of airflow, this ammonia and other pollutants will be blown into the Fraser Valley airshed, which had unusually high levels of ammonia, which obstructs view and causes health problems, already.
Public	We need to know specifically how and when the CO ₂ will be offset in accordance with BP's Kyoto policy.
Public	Stack produced emissions such as CO ₂ , NO _x , sulfurous compounds and particulate could be reduced to the minimum acceptable standards, with application of modern pollution control technology, in the vicinity of a marine coastal environment.
Public	Please look at the cumulative effects on the air quality of existing and proposed power plants.
Public	Please look at the carbon dioxide emissions and what would be the impact on the airshed.
Public	Where will emissions go? What is the direction of the prevailing winds? Where will they move these releases?
Public	What would be the impacts of acid rain on the forests east of the power plant?
Public	If BP reduces the existing emissions by replacing old boilers, then that would be a good thing.
Public	There should be significant tradeoffs for carbon dioxide emissions.
Public Mtg. - C	He is worried about cumulative impacts to the airshed.
Public Mtg. - C	He can see the air emissions now.
Public Mtg. - C	He questions why we should send Canada the pollution with U.S. getting the power.
Public Mtg. - C	Responding for the second time, how does this project differ from Sumas 2? Will there be a net decrease in air pollutants except CO ₂ ? Will it be less than Sumas 2, which had no net reductions?
Public Mtg. - C	Responding for the second time, he wanted to know what quantities of air pollutants would be emitted.
Public Mtg. - C	He was worried about air impacts.
Public Mtg. - C	How can BP say that emissions will be lower when the studies haven't been done?
Public Mtg. - C	What are the estimates for air emissions?
Public Mtg. - C	What pollutants are being emitted right now? BP statements seem misleading if no specific studies have been completed. Will the proposal outline specifically where offsets will be occurring (for CO ₂)? There are implications for "full-cost accounting."
Public Mtg. - C	He is concerned about emission and global warming. The Fraser Valley has the worst air quality in Canada. Will BP allow independent studies of air emission reductions? Will these be subject to review?
Public Mtg. - Q	Will cumulative air impacts be evaluated?
Public Mtg. - Q	Would the use of the proposed power plant result in a net reduction in total criteria air pollutants?
Public Mtg. - Q	Would the power plant itself offset air emissions?
Public Mtg. - Q	Would we see a reduction in air emissions? Please specify the nature and amount of the reductions?
Public Mtg. - Q	Once the power plant has been constructed, what would be the nature and amount of air pollutants?
Public Mtg. - Q	What would be the total and cumulative operations air emissions from the proposed power plant?
S. Fraser Health	Would we see a reduction in air emissions? Please specify the nature and amount of the reductions?

Table C-1. Continued

	S. Fraser Health	Please elaborate on the proposed pollution control equipment that would be used with the power plant?
	S. Fraser Health	Once the power plant has been constructed, what would be the nature and amount of air pollutants?
	S. Fraser Health	What would be the total and cumulative operations air emissions from the proposed power plant?
	Surrey	The City of Surrey is concerned about potential air quality impacts resulting from the proposed BP Cherry Point Cogeneration Project.
	Surrey	Assuming there will be emission offsets, what would be the net air quality improvements resulting from the proposed BP Cherry Point Cogeneration Project?
	Surrey	Would the proposed cogeneration plant negatively affect the air quality of the City of Surrey and the region?
	Surrey	Would BP be accountable for any promised air emission offsets?
	Whatcom Health	Whatcom County Health Department's main interest is related to excess air emissions from the plant that could impact public health.
	Whatcom Health	Air emission offsets should be carefully examined to ensure they actually result in an actual pollutant offset.
	Whatcom Health	Would air pollution offsets be based on reductions of the same pollutant?
	Whatcom Health	Would the net change in air pollution emission result in effects on public health?
	Whatcom Planning	Whatcom County is very interested in receiving information that clearly outlines the calculations of emission offsets.
	Whatcom Planning	Whatcom County is concerned about potential CO ₂ emission impacts.
	Washington State Parks and Recreation Commission (WPRC)	What are the potential air impacts downwind of the cogeneration site?
	WPRC	Would air pollution impact the recreational experience at the Birch Bay State park?
Air - method	Agency Mtg.	What kinds of Best Available Control Technology (BACT) is proposed as part of the power plant?
	Ecology	BP should submit the protocols for Class I and Class II studies.
	Ecology	The range of air shed models (CALPUFF and ISCST3) should include Canada.
	Ecology	BP should consult with Ecology to further discuss whether the proposed 20-km range is sufficient.
	Ecology	It would be helpful if BP would provide Ecology with comparative information for the Sumas 2 Energy Project.
	Ecology	It would be helpful if BP would provide Ecology with a description of the differences between the Sumas 2 Energy Project and the proposed BP Cherry Point Cogeneration Project.
	GVRD	Did the BP air pollution model address fluctuations in natural gas prices?
	LFVAQCC	The air pollution control technology should be increased from BACT to LAER.
	Lummi Indian Nation	The Lummi Indian Nation would like to know if an air quality model would be developed to assess potential impacts to air quality.
	National Park Service (NPS)	The project proponent should perform a Class I air quality impact analysis using the EPA CALPUFF modeling system.
	NPS	The air modeling should follow the latest EPA guidance for long-range transport found in the EPA document "Interagency Workgroup on Air Quality Modeling (IWAQM) Phase 2 Summary Report and Recommendations for Modeling Long Range Transport Impacts, EPA-454.

Table C-1. Continued

	NPS	The CALPUFF modeling analysis should address impacts to the Class I increments, far field visibility, and acid deposition.
	NPS	The use of the CALPUFF air model usually requires 4-5 years of meteorological data.
	NWAPA	The application must include a detailed "top-down" BACT analysis.
	NWAPA	The application should include a toxic air pollutant analysis along with criteria.
(air existing)	Public	We [Americans and Canadians] all live under the same atmospheric canopy, we all breathe the same air.
	Public Mtg. - Q	What would be the geographic area evaluated for potential air impacts?
	Public Mtg. - Q	Would the evaluation of potential air impacts look at other potential new sources of air pollution?
	Public Mtg. - Q	Will air modeling be conducted? What geographic area would be affected by the air pollution plume? Please elaborate by season of the year.
	S. Fraser Health	Will air modeling be conducted? What geographic area would be affected by the air pollution plume? Please elaborate by season of the year.
Air - mitigation	Ecology	Ecology encourages BP to consider providing mitigation for greenhouse emissions local to the proposed Cherry Point Cogeneration Plant.
	GVRD	Will Best Available Control Technology be used to minimize air emissions from the proposed facility, and is BP pursuing in-plant emission offsets so that there will be no increase in air contaminant emissions from the refinery location as a result of the commissioning of the cogeneration facility?
	GVRD	While the cogeneration project will result in increased Greenhouse Gas emissions, will BP remain committed to meeting the Kyoto emission reduction target for its facilities on a worldwide basis?
	NWAPA	The application should include an adequate continuous emission monitoring system (CEMS).
	NWAPA	Based on experience with the March Point Cogeneration Plant, NWAPA has difficulties monitoring NOx emissions when limits vary by type and combination of fuel.
	NWAPA	It can be difficult for NWAPA to monitor sulfur content of plant fuels when the plant is burning a mixture of fuels.
	NWAPA	Continuous Emission Monitors (CEMS) will be the primary means of determining compliance for the proposed cogeneration plant.
	NWAPA	Relative Accuracy Test Audits (RATAs) and cylinder audits will be the primary measures to determine the accuracy of the CEMS units.
	NWAPA	NWAPA would like the opportunity to review an Operations and Maintenance Plan for the proposed energy facility.
	NWAPA	An Operations and Maintenance Plan should focus on equipment and procedures for the air quality program at the energy plant.
	NWAPA	An Operations and Maintenance Plan should be kept on-site and available to the plant operator.
	Public	I understand the need to supply the great demand and I understand that sometimes compromises are made, but at what point does our compromise end the detrimental legacy that we now create for future generations?
	Public	Even if targets for reduction are considered expensive, what is the price for the alternative?
	Public	I believe alternative solutions created with new technologies aimed at reducing emissions can and must be incorporated, even funded by both U.S. and Canadian government administrations.

Table C-1. Continued

	Public	Joint U.S. and Canadian air quality review panels should cooperate to discover alternate solutions and recommend actions to both local and federal governments.
	Public	BP says they are concerned about global warming. Require that they put something of substance behind their words.
	Public	BP currently releases 3 million tons per year of CO ₂ - that amount is significant. Please make them either reduce their releases or someone else's.
	Public Mtg. - Q	What kinds of Best Available Control Technology (BACT) is proposed as part of the power plant?
	Public Mtg. - Q	Please elaborate on the proposed pollution control equipment that would be used with the power plant?
	Whatcom Planning	What emission controls are proposed for the energy facility?
Cultural - impacts	Lummi Indian Nation	The Lummi Indian Nation would like to know how the project proponent proposes to evaluate and protect cultural resources at the proposed cogeneration site and along the transmission line route(s).
	Whatcom Planning	Would the proposed energy facility potentially impact any cultural or archeological resources.
Earth – existing	WDNR	The geology in the site area should be analyzed, particularly for nearby suspected active faults.
	WDNR	What is the potential for earthquakes in the site area?
Earth – impacts	WDNR	Construction of the project would likely require a grading permit.
	WDNR	DNR feels it is unlikely that site excavation, even if it exceeded 3 acres, would require a DNR surface mining permit and reclamation plan [Chapter 87.44 RCW and Chapter 332-18 WAC].
	Whatcom Planning	Would the construction of the proposed cogeneration facility result in potential geologic impacts or seismic risks?
Earth – mitigation	WDNR	Does BP have plans for mitigation in case of an earthquake?
EFSEC	Agency Mtg.	Who decides if one of the optional EFSEC Council agency members participate?
	Blaine	Please explain any future public involvement opportunities that EFSEC would provide to residents of Blaine in the future as it relates to the proposed BP Cherry Point Cogeneration Project.
	BPA	Following the preparation of a System Integration Study, BPA would prepare a NEPA environmental document. The NEPA Record of Decision would "authorize" a project proposal.
	BPA	BPA, on occasion, works with state agencies to develop jointly prepared environmental documents, i.e. a joint SEPA-NEPA document.
	BPA	The preparation of a joint environmental document could expedite the time required to meet both state and federal regulations.
	Ecology	BP should coordinate with Ecology prior to the submittal of air permit materials.
	Ecology	A pre-site study should be coordinated with Ecology.
	Ecology	Ecology would like the opportunity to review the project plans, alternative analysis, wetland delineation for the preferred site, wetland impact evaluation, and proposed conceptual compensatory mitigation plan.
	Ecology	Ecology would like the opportunity to review wetland reconnaissance work for other alternative sites.
	Ecology	Ecology would prefer to modify the existing refinery NPDES permit, but acknowledges that EFSEC does not have jurisdiction over the refinery's permit.
	Ecology	Ecology suggests that any future changes to the cogeneration plant, including changes to discharge come under the EFSEC jurisdiction.

Table C-1. Continued

	GVRD	What is the timing, process, and approval procedures required by the State of Washington for consideration of the proposed BP Cherry Point Cogeneration project?
	GVRD	Please explain the EFSEC process more clearly?
	Lummi Indian Nation	The Lummi Indian Nation would like to know if the EFSEC review process considers off-site impacts of the project?
	Public	The decisions you [EFSEC] make over the next few months as to the location of power plants will affect the lives of people in Washington State for many years to come.
	Public Mtg. - C	Does EFSEC follow through after permits are issued for a plant? B) She then asked about solar power projects. She then asked if there were any other downsides to the project.
	Public Mtg. - C	He also wondered why the process should work.
	Public Mtg. - C	He was concerned that appropriate approval criteria could be a moving target.
	Public Mtg. - C	Can anyone override the Governor's decision?
	Public Mtg. - C	Lives two miles from refinery and supports the proposal. How long will the permit process take?
	Public Mtg. - Q	Who decides if one of the optional EFSEC Council agency members participate?
	Whatcom County Fire Department 7 (WCFD 7)	Have any of the neighboring property owners been contacted yet by BP?
	WUTC	Which government agency currently has jurisdiction over the existing pipeline serving the BP refinery?
	WUTC	Would BP present a written plan describing how the operators would manage the pipeline safety issues if pressure were increased?
Energy - existing	Agency Mtg.	How much energy does the refinery currently use?
	Agency Mtg.	What fuels are currently used to operate the refinery boilers?
	GVRD	What is the source of "feedstock" for the existing refinery?
	LFVAQACC	What is the sulfur content of fuels produced by the BP refinery?
	Public	What is the energy efficiency of shipping power to where it will be sold via power lines, or similarly, shipping natural gas to where the energy will be used?
	Public Mtg. - Q	What fuels are currently used to operate the refinery boilers?
Energy - impacts	Agency Mtg.	Why is BP proposing a power plant that generates 750 MW when the refinery uses much less energy?
	Agency Mtg.	Would the BP refinery close if the proposed power plant is not built?
	Agency Mtg.	Would back-up fuel be used by the power plant? What kinds of fuel sources would be used?
	Blaine	What would be the steady-state power production rate produced from the cogeneration plant?
	Ecology	BP should fully identify the range of back-up fuels other than natural gas that could be used in the operation of the proposed cogeneration plant.
	Ecology	Has BP considered using bio-diesel fuels at the proposed BP Cherry Point Cogeneration Project?
	GVRD	What is the life span expected for the Cherry Point refinery, i.e., how long will the North Slope crude oil be sent to the plant?
	GVRD	How does the proposed technology for the BP Cherry Point Cogeneration Project compare to the "Burard Thermoplant" design?
	GVRD	Will the proposed cogeneration component of the project use waste heat from the power plant in the refinery operations, providing an opportunity to achieve a very high overall energy efficiency for the facility?
	GVRD	Will alternate fuels be used at the energy plant?

Table C-1. Continued

GVRD	Will BP switch to the alternative fuels if the price of natural gas got too high?
GVRD	What kind of cogeneration equipment is proposed for the BP Cherry Point Cogeneration Project?
GVRD	Will BP provide plant flow diagrams?
LFVAQCC	Will the energy plant run at capacity?
LFVAQCC	What alternate fuels are being considered?
LFVAQCC	How was the proposed size of the turbine determined?
Lummi Indian Nation	The Lummi Indian Nation would like to know if the high voltage transmission lines needed between Everett and Seattle and the associated environmental impacts of the construction, operation, and maintenance of these transmission lines.
Public	Therefore, I would strongly suggest looking at (which I had thought you were and told now you were not necessarily looking) using waste gas burn off in the new project. It, as I see it, based on the size and length of your gas pipeline, would not be a drop in the bucket, but it should for use of burn off waste be incorporated in the system and used to the fullest extent possible in any new cogeneration of electricity.
Public	Will conservation of power be part of the EIS?
Public	Concern about substitute energy if natural gas is not used. Diesel, propane, etc. which will be used?
Public	What would be the net pollution reduction if existing boilers were replaced with a new boiler instead of the cogeneration facility?
Public	What possibility is there of using fuels other than natural gas, what impacts to the environment would the other fuels have. What restrictions will be imposed on the use of other fuels? How much additional CO2 will be produced.
Public	The secondary use of steam for the refinery is consistent with "good energy thinking."
Public	The generating facility equipped with gas and steam turbines as dual prime movers, believed to be able to function as peak shaver, during period of high energy demands of the days and with such capability, it would contribute substantially to the reduction of the developing energy shortage.
Public Mtg. - C	Will it increase energy consumption? Please use raw materials where you need them.
Public Mtg. - C	He has worked with labor unions in developing the free trade rally at Peace Arch Park recently. He is opposed to globalization by large corporate entities. He doesn't support the power plant. He wants to know where the energy will be used. He believes that fossil fuel powered electric energy is not sustainable. Need to talk about conservation and renewable energy. He proposed a meeting for like-minded people to get organized. Violence occurs where oil is drilled. He has formed the Shuksan Direct Action Coalition, which will not allow the power plant to go in. They will prevent it through civil disobedience measures such as chaining themselves to gates, and so on.
Public Mtg. - C	Will the old boilers be removed?
Public Mtg. - C	What about backup fuel or power? With three turbines, are smaller turbines available? Would one be sufficient?
Public Mtg. - C	California utilities stick ratepayers with add-on for wind turbines. Computers are one of the big consumers of electric power. Will the proposed plant allow for increased refinery production?
Public Mtg. - Q	Why is BP proposing a power plant that generates 750 MW when the refinery uses much less energy?
Public Mtg. - Q	Would the BP refinery close if the proposed power plant is not built?

Table C-1. Continued

	Public Mtg. - Q	Would back-up fuel be used by the power plant? What kinds of fuel sources would be used?
	Public Mtg. - Q	What voltage of electrical power would be generated by the proposed power plant?
	Public Mtg. - Q	Would these boilers be taken "off-line" if the power plant were constructed?
	Public Mtg. - Q	Will back-up fuel be used to operate the power plant? Please explain how often these back-up fuel sources would be used?
	S. Fraser Health	Will back-up fuel be used to operate the power plant? Please explain how often these back-up fuel sources would be used?
	Whatcom Planning	What does BP mean by the phrase "generator efficiency"?
	Whatcom Planning	Why is BP proposing only one steam turbine when reliability of steam for the refinery is so critical?
	Whatcom Planning	What alternate fuels are proposed for use at the cogeneration plant?
	Whatcom Planning	What is the difference between the proposed BP Cherry Point Cogeneration Project and the recently proposed Sumas 2 Project?
Fisheries - impacts	Lummi Indian Nation	The Lummi Indian Nation has concerns over water quality and fisheries issues, and provided a detailed list of concerns.
	Lummi Indian Nation	The Lummi Indian Nation would like to know if a biological assessment will be conducted to evaluate potential impacts on threatened and endangered plant and animal species from the proposed project, including associated construction associated with the wastewater discharge system and transmission lines.
	Nooksack Tribe	The Nooksack Indian Tribe is concerned about potential impacts to local fisheries considering fish migrate past Cherry Point on the way to the Nooksack River (already temperature impaired and on the Section 303(d) list), and Terrell Creek has water quality problems and coho.
	Public	My concern is primarily that the project not farther the decline of herring at Cherry Point, which are dangerously falling to zero.
	Sauk-Suiattle Tribe	The Sauk-Suiattle Tribe has watershed rights in the Upper Skagit River Basin and is concerned about fish that migrate along the Straits of Georgia [near the proposed plant site].
	Sauk-Suiattle Tribe	The Sauk River is a tributary of the Skagit River. As such, the Sauk-Suiattle Tribe is concerned about potential impacts to anadromous fish migrating from the Georgia Straits (near the project wastewater outfall) to the Skagit River.
	Tulalip Tribes	Would salmon habitat in the Puget Sound be affected by potential discharge waters?
	WDFW	How much wildlife habitat would be directly affected and would some of this loss of habitat negatively impact fish and wildlife.
	WPRC	Would future salmon runs in the area be affected?
Health and Safety - impacts	Ecology	Ecology is concerned about natural gas pipeline safety.
	Envir. Canada	Information on the potential human health impacts of any change in air quality emissions and the resultant change in ambient air quality, together with the geographic extent of any such impacts.
	GVRD	The GVRD Board of Directors want to ensure that this proposed facility does not compromise the health of residents that live within the impact zone of the emissions from the Cherry Point Refinery.

Table C-1. Continued

	Public	I am actively involved in trying to improve the air quality in the Abbotsford area. At present, my wife is a prisoner in our home for all the sunny summer days when air pollution is at its worse. There are a number of power generating plants in the works for this area at present including Sumas 2 Energy Project? Right on our doorsteps. The future looks bleak, the weak will die and the rest will get sick. While Americans on both sides of this border heat swimming pools and drive SUVs on cheap gas. Whatever became of conservation as an element of our quality of life?
	Public	What are the potential impacts on health?
	Public Mtg. - C	What impacts would occur to public health?
	Public Mtg. - C	What would be the effect would be on human health? He requested that information be made available in the Valley Herald (newspaper) because everyone needs to know.
	Public Mtg. - Q	Would ammonia be stored on the site?
	WDNR	DNR is concerned about potential hazards in case of an earthquake.
	Whatcom Health	Would the net change in air pollution emission result in effects on public health?
Land Use - existing	Public	The project area was settled by Mennonites and Swedish immigrants.
	WDNR	The BP Cherry Point project would be located on land within a mile of a DNR-managed Common School trust parcel (Sections 16 and 17, Township 39 North, Range 1 East, W.M.).
	WUTC	How close is the existing pipeline to existing residences? Does the pipeline meet the requirements in WAC 480.93(-20)?
	WUTC	The pipeline operators should identify high-consequence areas along the pipeline route.
Land Use - impacts	Envir. Canada	Information on the potential impact of any change in air emissions on agricultural crops in the potentially affected region.
	Public	The area is open and not very close to sites such as school grounds or major population centers just over the border.
	Public	The Cherry Point location is an excellent choice. There is no agricultural cropland sensitive to stack emission, no dense residential districts that may object to noise levels, nor automobiles of highway traffic that would intensify air contamination emissions from a medium-sized power generating plant.
	Public	I feel very strongly that this is not an acceptable site for the BP power plant proposal.
	Public	Northwestern Washington is not an area where industries that produce any significant increase in harmful emissions should be considered.
	Public	What are the potential impacts to property?
	Public Mtg. - C	Why should the plant be built next to the U.S. border? Why next to a refinery?
	Whatcom Planning	Does Whatcom County have jurisdiction over the pipeline and compressor stations that may be needed for the cogeneration plant?
	Whatcom Planning	A Whatcom County conditional land use permit may be required for the construction of new pipeline or compressor equipment.
	Whatcom Planning	Would the State's Coastal Zone Management Act (CZMA) be applicable to the proposed energy facility?
	Whatcom Planning	The Whatcom County Planning Department commented that the construction of new electric transmission lines could conflict with the citizen initiative to restrict new transmission lines in the county.
	WUTC	How do the pipeline operators propose to operate the pipeline in "high consequence areas" per Office of Pipeline Safety regulations for areas of high population density and economic importance?

Table C-1. Continued

	WUTC	BP should describe in the project summary the route of the existing gas pipeline and how the proponent has considered any increase in pipeline pressure could affect people, buildings, and property along the route.
Land Use - mitigation	WUTC	Do the pipeline operators have a plan for "integrity management", i.e., regularly schedule pipeline inspections for pipeline weaknesses?
	WUTC	The pipeline operators should provide procedures and standards on how the project will ensure the pipeline integrity in high-consequence areas, giving due consideration to the possibility of future development in the area.
General comment	Jamestown S'Klallam Tribe	The Jamestown S'Klallam Tribe has been contacted and the tribal representatives are conferring on whether or not they have any comments (6/5/01).
	Lummi Indian Nation	The Lummi Indian Nation sent a representative to the Agency Meeting and also asked for a separate meeting, which was held on June 15, 2001.
	Port Gamble S'Klallam Tribe	The Port Gamble S'Klallam Tribe has no comments at this time (6.25/01).
	Public	As a former regulator for the BP/ARCO Cherry Point Refinery, I can attest to the Cherry Point Environmental commitment. This is a good project and it makes sense.
	Public	I totally support this project and request your timely review and favorable recommendation to the Governor.
	Public	Less pollution, needed power...build it now!
	Public	The intent of my letter is to show support for the BP Cherry Point Project. This is the type of power generation facility that makes good sense in these times.
	Public	The BP project acceptance seems to be a promise and a joy ride without all the negatives that made Sumas 2 Energy Project a non-viable alternative.
	Public	Finally, all aspects of this project are a great promise; in the right place, in the right time, please switch on the green light.
	Public Mtg. - C	We need the power, more power is good, we need the corporate jobs.
	Public Mtg. - C	Commentor stated that he would be the plant's nearest neighbor and he strongly supports the project. The West Coast needs the power.
	Public Mtg. - C	The project makes sense and is "as good as you get." The only better project would be nuclear. The environmental impact is negligible. BP people are "world class."
	Public Mtg. - C	BP is the cleanest, most efficient of any of the refineries. He is a union man and he supports the project. Regarding air pollutants, he is reminded of the coal plants in the Fraser River Valley.
	Public Mtg. - C	This is the "right time, right place, and right airshed" to build the proposed plant.
	Suquamish Tribe	The Suquamish Tribe has no concerns at this time (5/29/01).
Swinomish Tribe	The Swinomish Tribe has no concerns at this time (5/2/01).	
Upper Skagit Tribe	The Upper Skagit Tribe has no comments. The Cherry Point site is "outside the Tribe's boundary of influence." All of the Tribe's "usual and accustomed territory" lies in Skagit County.	
Noise - impacts	Agency Mtg.	What would be the noise impacts of the proposed power plant?
	GVRD	Would residents of White Rock be able to hear "low intensity" noise?
	Public	How much noise would be generated by the proposed power plants?
	Public	You did not address noise pollution issues at this meeting. What will the impact be? Especially for those of us in the Sandy Point area where we already get considerable noise from the Cherry Point area.

Table C-1. Continued

	Public	Please make the plant run quietly.
	Public	What would be the noise impacts?
	Public	Noise Issues - It would be nice if the facility did not greatly expand the current noise levels from the refinery. Some questions to address: 1) What baseline data exists? 2) Will the Council look at cumulative noise level impacts? 3) Will Puget Sound Energy's peaking power facility to the west of the refinery be shut down and what impact will this have to mitigate noise (as well as air pollution)?
	Public Mtg. - C	He is worried about sound that the plant will make. He also keeps up the www.birchbay.net site.
	Public Mtg. - C	What would be the impacts from noise?
	Public Mtg. - C	He is worried about the "noise factor" and "resonances" across the water. There is already noise from the refinery and he is concerned about cumulative noise impacts. How will the new plant address noise?
	Public Mtg. - Q	What would be the noise impacts of the proposed power plant?
	Public Mtg. - Q	What sort of noise emissions would be produced by the power plant?
	Whatcom County Fire District No. 7	What sort of noise emissions would be produced by the power plant?
	WPRC	Would users of the Birch bay State Park potentially be affected by noise impacts from the cogeneration plant?
Project Proposal	Agency Mtg.	What is the estimated cost of constructing the proposed power plant?
	Agency Mtg.	How soon could BP produce electric power from the proposed power plant?
	GVRD	Is the purpose of the proposed power generation facility to provide dependable and affordable power for the Cherry Point Refinery?
	Public	750 MW is a lot of power, why such a large plant?
	Public	Is it true that nearly 90 percent of the power generated would be for offsite uses?
	Public	Is it true that the power generated at the proposed plant would be too expensive for use by Intalco?
	Public	There is an important difference between potentially selling power produced by the power plant at below market or above cost prices.
	Public	Regarding alternatives, conservation should be emphasized.
	Public Mtg. - C	How much excess capacity? There should be a balance between stockholders versus corporate responsibility.
	Public Mtg. - Q	What is the estimated cost of constructing the proposed power plant?
	Public Mtg. - Q	How soon could BP produce electric power from the proposed power plant?
	Public Mtg. - Q	Have any of the neighboring property owners been contacted yet by BP?
	WDFW	What types of construction methods and timing are proposed?
Public Services - existing	Agency Mtg.	How much natural gas does the refinery currently use?
	Agency Mtg.	Does the existing natural gas line serving the refinery have sufficient capacity to meet the additional demand from the proposed power plant?
	Agency Mtg.	How long has BP not used its full amount of contracted water with the local water district?
	Agency Mtg.	What are the details of the other power plant (coal-fired) that has recently been proposed in Whatcom County?
	Agency Mtg.	What are the current sources of power now serving the BP refinery?

Table C-1. Continued

	BPA	BPA has agreed with other regional electric utilities to upgrade some existing facilities to meet known requirements.
	Ecology	BP apparently is about to construct a pipeline to the Birch Bay Sewer District treatment plant, and Ecology recommends BP consider using the same right-of-way to install a return pipe for the cooling water for the proposed cogeneration plant.
	Public	This project needs to be "approved" as soon as possible and up and running before the lack of electrical power impacts the area. As the scarcity of electricity becomes critical, the price will skyrocket, which will impact people like me on a fixed income. We need to start this project as soon as possible.
	Public	There is a need for energy in our area.
	Public	Washington State sits between the natural gas fuel supply in Canada to the north and the great power consumers to the south. As well as doing our part to help generate power for the West Coast, we must beware that we do not become the "Detroit" of power plants.
	Public	Is there really a need for the power, or has the deregulation of the energy market in California entirely changed the whole system?
	Public Mtg. - Q	How much energy does the refinery currently use?
	Public Mtg. - Q	How much natural gas does the refinery currently use?
	Public Mtg. - Q	Does the existing natural gas line serving the refinery have sufficient capacity to meet the additional demand from the proposed power plant?
	Public Mtg. - Q	What are the details of the other power plant (coal-fired) that has recently been proposed in Whatcom County?
	Public Mtg. - Q	What are the current sources of power now serving the BP refinery?
	Whatcom County PUD No. 1	BP currently has a contract with the Whatcom County PUD No. 1 for water supply.
	Whatcom Planning	Has the price of natural gas exceeded the price of diesel?
	WUTC	What is the current and proposed operating pressure for the natural gas pipeline?
	WUTC	BP should provide details that establish the operating pressure for the existing natural gas pipeline.
	WUTC	The pipeline operators should confirm the establishment of the maximum allowable operating pressure ("MAOP") for this pipeline in compliance with 49 CFR 192.619.
	WUTC	BP should describe in the project summary the route of the existing gas pipeline and how the proponent has considered any increase in pipeline pressure could affect people, buildings, and property along the route.
Lummi Indian Nation	The Lummi Indian Nation also asked whether the electric grid between Everett and Seattle was adequate to handle new power sources in its current condition or if facilities would need to be upgraded, including the construction of a new transmission line.	
Public Services - impacts	Agency Mtg.	Will power generated by the power plant be available for purchase by utilities and industries in the region?
	Agency Mtg.	If the power plant is constructed, would the refinery be taken "off" of the electrical grid?
	Agency Mtg.	Would additional water be needed to operate the power plant?
	Agency Mtg.	What voltage of electrical power would be generated by the proposed power plant?
	Agency Mtg.	Has an application or request for service been submitted to the Bonneville Power Administration (BPA)?
	Agency Mtg.	Will BP need to acquire additional water rights to meet the water demand for the proposed power plant?
	Agency Mtg.	Would the proposed power plant incur additional impacts on public services?

Table C-1. Continued

Agency Mtg.	Have any agreements to purchase power from the proposed power plant been negotiated with any local entities?
Agency Mtg.	Would BP consider selling power generated from the proposed power plant at subsidized rates?
Agency Mtg.	How long does it normally take for BPA to conduct a System Impact Study?
Blaine	Would BP evaluate the beneficial use of reclaimed wastewater that could be provided by the Birch Bay Water and Sewer District?
Blaine	What would be amount and price of power supplied to the local community? Would that power be "under-market" power supplies?
Blaine	Would the proposed cogeneration plant result in any impacts to the City of Blaine, its UGA, e.g. housing demand and additional municipal services or utilities?
BPA	BPA has been requested to prepare a System Impact Study (SIS) by BP, but has not initiated that process yet.
BPA	If the BPA SIS agreement is signed by BP, then a SIS report should be completed in December 2001.
BPA	Without the completion of the contract by BP to do the SIS report, BPA cannot speak to any concerns they may have concerning the proposed cogeneration plant.
BPA	BPA is looking into ways to expedite the process of preparing a SIS study, but has no plans to hire additional personnel.
BPA	When completed, the SIS will be a public document.
BPA	Any reinforcement or improvement to the BPA system required to serve the proposed BP Cherry Point Cogeneration Plant would be paid by BP.
BPA	BPA must take into account the entitlement to Canada and have the system capacity to return power brought into the U.S.
BPA	BPA would not require any permit applications from BP for their proposed cogeneration plant.
Ecology	Ecology supports water reuse at the BP refinery, but cautions BP to fully scope out additional toxicity issues that may occur due to condensing the wastewater discharge stream.
Ecology	Ecology recommends that BP consider developing an agreement with the Birch Bay Sewer District for use of the water from their wastewater treatment plant.
Ecology	BP apparently is about to construct a pipeline to the Birch Bay Sewer District treatment plant, and Ecology recommends BP consider using the same right-of-way to install a return pipe for the cooling water for the proposed cogeneration plant.
Ecology	Ecology is interested in clearly understanding the proposed natural gas pipeline, existing and proposed operating pressures, and compressor stations.
Ecology	Ecology is interested in understanding the supply sources of natural gas resources for the proposed cogeneration facility.
Envir. Canada	Information on any new or physically modified infrastructure, for example, power lines, pipeline upgrades, compressor stations, which could be required within Canada or adjacent to the international boundary as a result of the project, including any environmental implications.
Envir. Canada	Information on any operational changes to existing facilities such as pipelines and compressor stations, which could affect Canadian interests in any way, including any environmental implications.

Table C-1. Continued

	Envir. Canada	Information on the implications (in any) of the project on operation of generating facilities within Canada. For example, will the power generated by the project reduce the required level of operation or change operational patterns at any generating facilities within Canada or immediately adjacent to the international boundary? If so, what are the implications of such changes in environmental terms?
	Envir. Canada	Basic information on the cumulative effects of this proposal in context with any other proposals in the same area (e.g. GSX).
	GVRD	What is the source of the natural gas proposed to be used by the BP energy facility?
	GVRD	How much natural gas will be needed to operate the proposed energy facility?
	GVRD	Is the amount of natural gas needed by the energy plant sustainable? If not, is BP considering other energy sources?
	GVRD	How much additional natural gas would be needed by the BP refinery and cogeneration plant compared to existing consumption?
	GVRD	Did BP uses today's natural gas prices or historical gas prices in calculating plant economics?
	LFVAQCC	Will BP need another "pumping station" [compressor station] for the natural gas pipeline?
	Lummi Indian Nation	The Lummi Indian Nation would like to know if the wastewater treatment facility at the refinery needs to be modified in order to treat additional and different wastewater generated by the proposed cogeneration plant.
	Lummi Indian Nation	The Lummi Indian Nation would like to know if there are plans to use the water treatment facility associated with the cogeneration plant to provide treated water to nearby communities for a potable water supply source, e.g. Birch Bay.
	Lummi Indian Nation	The Lummi Indian Nation would like to know how much more water will be withdrawn from the Nooksack River and transferred out-of-basin in order to supply water to the proposed cogeneration plant.
	Nooksack Tribe	What would be the economic effects resulting from not building the proposed cogeneration plant?
	Nooksack Tribe	The Nooksack Indian Tribe is concerned about required water supplies, water rights, and discharges.
	Public	How much energy will BP use and what will happen to the difference?
	Public	Excess electricity should be available for sale to all of Whatcom County, certainly local communities, if not the state.
	Public	Use increased cause every inch inspected depreciation which means it must have a drop dead "hope not" or wear out point – long time – yes, but in view of 1999, loss to fuel line – constant pipeline vigilance via scanning and other technology should be strongly applied.
	Public	You might explore electrical supplying to the aluminum smelter – very big impact on the state economy if it shuts down.
	Public	I see this primarily as a project that BP wants for cheaper power operation—more emphasis should be on transmission issues. The power should be sold to PSE.
	Public	Where will the sold power be wheeled?
	Public	Cumulative effect of multiple power plants in northern Washington.
	Public	Please consider GP and other local companies when you decide where to sell your excess power. I support this plant and I hope it goes through.

Table C-1. Continued

Public	I think the proposal is a great progress toward the needed generation infrastructure in the Northwest. However, I think also that the power generated must have a certain percent (>50%) sold in Washington state and a percent (>60%) used in Whatcom County to build the economy in the local area where this peak load plant is being built.
Public	Also, the BP project is moving in the right direction to be in control of their own energy production and costs which will help to keep Whatcom County viable and not just a location to burn gas and ship the product out of town.
Public	How much natural gas would be consumed?
Public	Would the amount of natural gas required by the power plant affect the price of natural gas used for heating homes and businesses in Whatcom County or Washington?
Public	If all of the permitted power plants were constructed, what would that say for the need for energy and the consumption of gas?
Public	What about the bottleneck in the Puget Sound electrical grid system. If the power plants are built in Whatcom County, could the power be moved south to where it is needed?
Public Mtg. - C	He is concerned about Canadian gas brought over the border to generate electricity that will be sent to California with pollution sent to Canada. He quoted Dick Cheney statements in Canada. We need alternatives to fossil fuels.
Public Mtg. - C	He questioned where the natural gas would come from.
Public Mtg. - C	He is concerned that BP make a commitment to use the power in Whatcom County. Will the distribution be through Puget Sound Energy? Will there be a new substation? He is worried about power that goes to BPA winding up in California. He agrees that we need power, but he is concerned about the validity of the statements being made by the Proponents.
Public Mtg. - C	He was concerned about the cost of power production, particularly as it relates to aluminum smelters, and stated that BPA produces hydroelectric power for \$16 per MW. He wanted to know what BP's cost of production would be and what turbines would be used.
Public Mtg. - C	What percentage of the electricity produced would be used by BP?
Public Mtg. - C	He also wanted to know what percentage of power would be used by Alcoa's Intalco plant and surrounding communities.
Public Mtg. - C	He wanted to know if the plant will take itself off the Puget Sound Energy grid.
Public Mtg. - C	With the deregulation of power, the reserve capacity that the electric power grid used to have we don't have now. We need power.
Public Mtg. - C	Will the pipeline be enlarged or will a new pipeline be built? When BP says that it will develop "regional power" – what region is indicated? She was concerned about the cumulative effects and statements made in Seattle about Whatcom County being "ground zero" for energy. She wanted to know if coal was being considered as an alternate fuel. She stated that ARCO/BP is one of the better corporate neighbors.
Public Mtg. - C	There are no blackouts in Los Angeles or Sacramento because these areas have not de-regulated their utilities. Montana has de-regulated their utilities and they are having problems, it exports power and its aluminum plant is not running. Why can't BP provide power to Intalco? He wants to hear about (power sales) contracts to get people back to work.
Public Mtg. - C	Could BP sell power at just above cost not just below market price?
Public Mtg. - Q	Will power generated by the power plant be available for purchase by utilities and industries in the region?

Table C-1. Continued

	Public Mtg. - Q	If the power plant is constructed, would the refinery be taken "off" of the electrical grid?
	Public Mtg. - Q	Would additional water be needed to operate the power plant?
	Public Mtg. - Q	Has an application or request for service been submitted to the Bonneville Power Administration (BPA)?
	Public Mtg. - Q	Will BP need to acquire additional water rights to meet the water demand for the proposed power plant?
	Public Mtg. - Q	How long has BP not used its full amount of contracted water with the local water district?
	Public Mtg. - Q	Would the proposed power plant incur additional impacts on public services?
	Public Mtg. - Q	Have any agreements to purchase power from the proposed power plant been negotiated with any local entities?
	Public Mtg. - Q	Would BP consider selling power generated from the proposed power plant at subsidized rates?
	Public Mtg. - Q	How long does it normally take for BPA to conduct a System Impact Study?
	Whatcom County PUD No. 1	The PUD has not received any information at this time regarding new water resources needed by BP for the proposed cogeneration plant.
	Whatcom County PUD No. 1	Without additional information, the PUD is unable to comment on any concerns they may have concerning the proposed cogeneration plant.
	WDFW	Would there be an increased demand for water supplies?
	WDNR	DNR is concerned about the potential for accidental fire during project construction and operation [see RCW Chapter 76.04 WAC and Chapter 332-24].
	Whatcom Planning	Will BP stipulate limiting the use of alternative fuels?
	Whatcom Planning	Will BP need to construct a new natural gas pipeline for the cogeneration plant?
	Whatcom Planning	Does BP proposed to commit to any local power sales?
	WUTC	What is the current and proposed operating pressure for the natural gas pipeline?
	WUTC	If the operating pressure is proposed to be increased in the existing natural gas pipeline, how will it occur?
	WUTC	How would the natural gas pipeline operators propose to ensure that the existing pipeline can be operated at an increased pressure?
	WUTC	Would the pipeline operators propose to conduct pre-operation tests?
	WUTC	Are the pipeline operators aware that new regulations are expected to be adopted for natural gas pipelines by the end of 2001 that would be similar to those already in existence for liquid product pipelines?
	WUTC	The focus of concerns for the WUTC is gas pipeline safety and transmission issues.
	WUTC	The operation of the existing natural gas pipeline should comply with 49 CFR, Subpart L per WUTC regulations.
	WUTC	If the BP pipeline is operated above the current maximum operating pressure of 550 psi, the proponent should comply with WAC 480-93-020 governing proximity considerations.
	WUTC	How would the construction a new electrical transmission line and interconnection of the proposed cogeneration plant affect reliability or transfer capabilities of the transmission grid in Northwestern Washington and Southwestern British Columbia?

Table C-1. Continued

Public Services – mitigation	Public	BP states they would make excess energy available locally at below market prices. Right now, the market is out of control. Please look at the specifics of this to see if this is a realistic proposition for the community. It could be a positive in exchange for the impacts of BP.
	WUTC	If the existing pipeline is proposed to be operated above the existing maximum operating pressure, the line should be required to follow up-rating procedures as specified in 49 CFR 192, Subpart K and/or file for approval to operate as required by 480-93-02.
	WUTC	If the proposed cogeneration plant resulted in adverse effects on the electric transmission grid reliability, would the project make a new positive contribution to regional generation adequacy or public interest?
Socioeconomic - existing	Public	There is a need for family wage jobs in our area.
	Public Mtg. - C	He voiced full support of the proposed plant and is knowledgeable about energy conservation (he built an energy-conserving home). He is very concerned about 2,500 high-paying jobs being removed from the County due to high energy costs. If aluminum jobs disappear, do we still need the power?
	Public Mtg. - C	She lives close to BP and completely supports the project. She thanked BP for providing good, high-paying jobs.
Socioeconomic - impacts	Agency Mtg.	What would be the economic impacts of the proposed power plant?
	Agency Mtg.	How many jobs would be created with the construction and operation of the power plant?
	Agency Mtg.	Would the construction of the power plant create any housing impacts? Is housing available for the construction workers?
	Blaine	Would the project bring additional jobs to the area, directly or indirectly? Please characterize these jobs.
	Public	We need power. This is clean and quicker to build than dams. We also need jobs and the tax base our corporate neighbors provide. This project is ecologically friendly.
	Public	BP's excellent track record as a steward of the environment. This seems to be a no-brainer. We need jobs. We need energy and BP has been an excellent neighbor and is heavily involved in the community.
	Public Mtg. - C	There is a need question. Why build a plant that provides more electricity than what the refinery uses. The power is intended for sale outside of Whatcom County. He doesn't want Intalco to go away.
	Public Mtg. - C	She wants to see economic growth in the County.
	WDFW	Would the additional construction employees and vehicles result in disturbances?
	Whatcom Planning	Whatcom County is interested in evaluating potential public benefit of the proposed cogeneration plant, similar to the FERC process for the current Williams Company proposal for a new pipeline in the county.
	WUTC	Would the proposed cogeneration project result in any socioeconomic effects associated with adverse reliability conditions and the need to build additional transfer capability?
	Public Mtg. - Q	What would be the economic impacts of the proposed power plant?
	Public Mtg. - Q	How many jobs would be created with the construction and operation of the power plant?
Public Mtg. - Q	Would the construction of the power plant create any housing impacts? Is housing available for the construction workers?	

Table C-1. Continued

Transportation - impacts	Agency Mtg.	Would there be any transportation impacts resulting from the construction and/or operation of the power plant (particularly emergency access)?
	Public Mtg. - Q	Would there be any transportation impacts resulting from the construction and/or operation of the power plant (particularly emergency access)?
	WDFW	Would the additional construction employees and vehicles result in disturbances?
Visual - impacts	Agency Mtg.	What does the refinery plant management plan to do with all of the hybrid trees planted on the site?
	Envir. Canada	Information on the impacts of the proposal on visibility in the air basin should be provided. As an initial proposal, we suggest that analyses for sight lines such as the following be considered, in addition to the potential impacts on parks: Victoria to Mount Baker; White Rock to Mount Baker; Vancouver to Mount Baker; Vancouver to Lions; Langley, Abbotsford, and Chilliwack to surrounding mountains.
	GVRD	Would cooling tower emissions be visible to White Rock residents?
	Public	Visibility of steam from cooling towers. How visible will it be? Thank you for the opportunity to express our opinion.
	Public	Vegetation provides noise and site screening. The current refinery and cooling towers are screened from Grandview Avenue by planted vegetation, which appears to serve as both a noise and visual barrier. The vegetation appears to be harvestable timber, which might someday be removed. What is the long-term plan for natural vegetation screening for noise and visibility protections.
	Public Mtg. - C	Would light from the BP Cherry Point Refinery be visible from his home across the bay (and border).
	Public Mtg. - Q	What does the refinery plant management plan to do with all of the hybrid trees planted on the site?
Water - existing	Public	Also, their [BP's] ability to manage the wastewater on the refinery property is in their favor.
	Tulalip Tribes	What diffuser is currently used at the refinery point of discharge?
	Tulalip Tribes	Under the existing NPDES permit, what pollutant loading would be allowed to be emitted from the BP refinery?
Water - impacts	Blaine	What would be the potential impacts of heated and demineralized waste discharged from the cogeneration plant, especially potential impacts to the local herring stock?
	Ecology	Ecology supports water reuse at the BP refinery, but cautions BP to fully scope out additional toxicity issues that may occur due to condensing the wastewater discharge stream.
	Ecology	Ecology is concerned about potential water quality changes that could impact the herring population observed in the vicinity of the existing point of discharge?
	Ecology	Ecology is concerned about potential changes in water temperature that could occur near the point of discharge, which could potentially affect the local herring population.
	Ecology	Ecology recommends that should BP develop a cogeneration plant that uses treated water from the Birch Bay Sewer District, that the impacts of water reuse to the mixing zone assigned to the BP refinery should be re-evaluated, including the refinery's ability to meet water quality standards and WET limits.
	Ecology	Ecology would like to know if BP plans to continue to allow stormwater to drain into the wetland mitigation project area north of Grandview Road. Ecology does not recommend that this practice continue without treatment of the stormwater.
	Lummi Indian Nation	The Lummi Indian Nation has concerns over water quality and fisheries issues, and provided a detailed list of concerns.

Table C-1. Continued

	Lummi Indian Nation	The Lummi Indian Nation would like to know if the existing NPDES permit associated with the wastewater treatment facility at the refinery would need to be modified.
	Nooksack Tribe	The Nooksack Indian Tribe is concerned the proposed project has the potential for contamination to groundwater resources.
	Nooksack Tribe	The Nooksack Indian Tribe is concerned about potential impacts to water quality.
	Nooksack Tribe	The Nooksack Indian Tribe is concerned about required water supplies, water rights, and discharges.
	Public	What elements and pollutants are contained in the water treatment facility? How is the water contained so that no contamination is leached into the ground and makes its way to the nearby ocean? I see that the water waste will be discharged "through existing treatment systems made in 1970." Upgraded in 1997?
	Public	It goes without saying, all avenues of water use and re-use should be applied.
	Public	Any new plant must not degrade discharge water or air quality.
	Public	What impact will there be on water quality, water discharge?
	Public	Water Quality - the plan calls for BP to use the existing wastewater treatment facility. It is my understanding that the system is currently undergoing permit reissue and that part of this involves a Department of Ecology "Agreed Order" to complete a facility sampling plan by November 2002 and to implement the plan (including detailed hydrologic studies) by November 2004. This timetable seemed too slow to me for the existing use and it seems reasonable that the preparation of the sampling plan and completion of these studies should be finished before the use of the facility is expanded.
	Public Mtg. - C	What would be the water issues since the technology that will be employed will be the best available.
	Public Mtg. - C	Questioned the existing NPDES permit for water discharges. Will the NPDES for the proposed plant be a separate permit? Who will be in charge of revised permit?
	Stillaguamish Tribe	The Stillaguamish Tribe is concerned about potential impacts to the Stillaguamish Watershed and Port Susan.
	Tulalip Tribes	How would the different streams of wastewaters from the refinery and the proposed cogeneration plant be managed?
	Tulalip Tribes	What impacts could result from the discharge of wastewater from the cogeneration plant using the existing BP refinery discharge pipeline?
	WDFW	Would there be a change in the use of water resources?
	WDFW	What types of stormwater control facilities and methods are proposed?
	WDFW	Would there be a change in the temperature and/or toxicity of water at the discharge outfall?
	WDFW	What types of erosion control are proposed as part of the project?
	WPRC	Would water quality of Terrell Creek be affected?
Wetlands and Vegetation - existing	Ecology	BP should use the "Washington State Wetlands Rating System, 1993" to categorize wetlands.
	Ecology	BP should use the "Washington State Functional Assessment Method, 1999, " or other method approved by Ecology for functional assessment of wetlands at the preferred site.
	Ecology	Ecology would like to know if BP plans to continue to allow stormwater to drain into the wetland mitigation project area north of Grandview Road. Ecology does not recommend that this practice continue without treatment of the stormwater.

Table C-1. Continued

Wetlands and Vegetation - impacts	Ecology	BP should avoid wetland impacts as their primary goal.
	Ecology	Ecology would prefer that BP consider building in the road buffer zone, as other locations could significantly impact wetlands.
	Ecology	A U.S. Army Corps of Engineers Section 404 individual permit would likely be required for development of the proposed project site.
	Ecology	BP should consider placing emphasis on the alternative analysis for the Section 404 Permit application. Ecology is very interested in reviewing this analysis for wetland mitigation.
	Ecology	BP should consider plant design alternatives for locations for employee parking and administration buildings, such that wetland impacts could be limited to those from the cogeneration plant and substation.
	Ecology	BP should coordinate with Ecology to determine what kind of functional assessment is appropriate for the project site wetlands.
	Lummi Indian Nation	The Lummi Indian Nation would like to know if the construction and operation of the proposed cogeneration plant, including transmission lines, would affect wetlands at or near the project site and what mitigation is proposed for these impacts.
	Tulalip Tribes	What impacts to wetlands would occur, particularly along Terrell Creek (a salmon-bearing creek)?
	WDFW	How much wetland, riparian forest, and old field habitat would be impacted by the proposed cogeneration plant?
	WDNR	The protection of natural and public resources under RCW Chapter 76.09 and WAC Title 222 should be evaluated.
	WDNR	The project proponent should be aware that a forest practices application would be required for any tree removal planned to take place and would likely be classified by DNR as a conversion forest practice, or a Class IV-General conversion..
	WDNR	Conversion forest practices are subject to SEPA review.
Wetlands and Vegetation-mitigation	Ecology	BP should consider that the proposed mitigation ratio could be 4:1.
	Ecology	Any proposed wetland mitigation should be consistent with Whatcom County requirements.
	Ecology	Ecology recommends that BP consult the documents "State of Washington Alternative Mitigation Policy Guidance for Aquatic Permitting Requirements from the Departments of Ecology and Fish and Wildlife" and "How Ecology Regulates Wetlands."
	Ecology	Ecology prefers wetland mitigation to be on-site and in-kind, but will also consider on-site out-of-kind, off-site in-kind, and off-site out-of-kind, in that order.
	Ecology	BP should consider that any wetland impact mitigation should be located in the same drainage basin as the impacted wetlands.
Wildlife - impacts	Envir. Canada	Information on the change in atmospheric deposition of contaminants, including comparison with available criteria for ecosystem sensitivity.
	Lummi Indian Nation	The Lummi Indian Nation would like to know if a biological assessment will be conducted to evaluate potential impacts on threatened and endangered plant and animal species from the proposed project, including associated construction associated with the wastewater discharge system and transmission lines.
	WDFW	How much wildlife habitat would be directly affected and would some of this loss of habitat negatively impact fish and wildlife.
	WDFW	Would the construction of the proposed cogeneration plant protect priority habitats and species?

Table C-1. Continued

Wildlife - mitigation	WDFW	Does proposed mitigation reflect agency goals to avoid, minimize, restore, replace, and compensate for the loss of habitat, in that order?
	WDFW	What specific measures and timing are proposed in the mitigation planning?
	WDFW	Does the mitigation incorporate monitoring with contingencies and oversight funding?