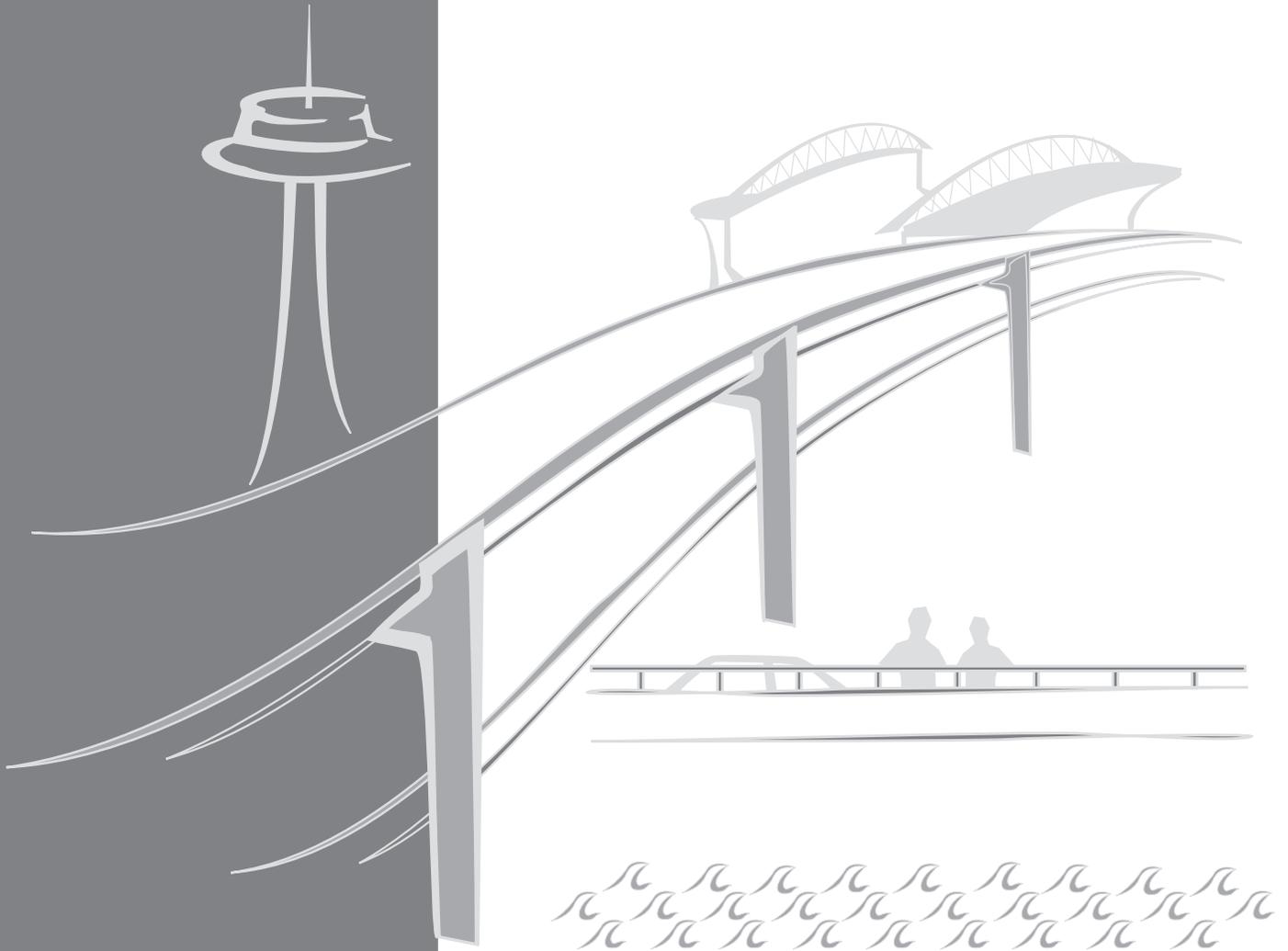


SR 99: ALASKAN WAY VIADUCT &
SEAWALL REPLACEMENT PROJECT

Draft Environmental Impact Statement Appendix Y Annotated Draft EIS Outline



MARCH 2004

Submitted by:
PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.

Prepared by:
PARAMETRIX



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SR 99: ALASKAN WAY VIADUCT & SEAWALL REPLACEMENT PROJECT

Draft EIS Annotated Outline

AGREEMENT NO. Y-7888

FHWA-WA-EIS-04-01-D

Submitted to:

Washington State Department of Transportation
Alaskan Way Viaduct and Seawall Replacement Project Office
999 Third Avenue, Suite 2424
Seattle, WA 98104

The SR 99: Alaskan Way Viaduct & Seawall Replacement Project is a joint effort between the Washington State Department of Transportation (WSDOT), the City of Seattle, and the Federal Highway Administration (FHWA). To conduct this project, WSDOT contracted with:

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In association with:

BERGER/ABAM Engineers Inc.
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Introduction and Purpose of this Appendix

This appendix is a guide for people interested in correlating how the substantive requirements of federal, state, and local environmental regulations have been met by the information contained in this new “reader-friendly” Draft Environmental Impact Statement (EIS). This appendix is an outline of the Draft EIS. It contains references to the federal, state, and local regulations that dictate the content of an EIS. The references are not all-inclusive of the governing regulations, but it includes primary references. The regulations referenced include the:

- National Environmental Policy Act (NEPA)
- Washington State Environmental Policy Act (SEPA)
- Seattle Municipal Code (SMC)

The information referenced includes federal regulations and described in the Code of Federal Regulations (CFR). References to state regulations are described in the Washington Administrative Code (WAC). References to City of Seattle regulations are contained in the Seattle Municipal Code (SMC).

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Cover Sheet (includes abstract)

Cover sheet required by NEPA, 40 CFR 1502.11.

Fact Sheet (includes required permits and licenses)

Required by SEPA, WAC 197-11-440(2) and SMC, 25.05.440(A).

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TABLE OF CONTENTS (NEPA/SEPA/SMC REQUIREMENT)

Introduction and Purpose of this Appendix.....i

Cover Sheet (includes abstract).....iii

Fact Sheet (includes required permits and licenses).....iii

Chapter 1 Introduction to the Project..... 1

Chapter 2 Summary and Comparison of Alternatives.....3

Chapter 3 The Project Area Then and Now..... 7

Chapter 4 Developing the Alternatives 9

Chapter 5-9 Alternatives..... 11

Chapter 10 Construction Impacts and Mitigation.....15

Chapter 11 Other Things to Consider17

Acronyms

Index

List of Exhibits

References

List of Preparers

List of Appendices

Distribution List

Purpose and Need Statement

Comment Form

<p>Table of Contents as required by NEPA, 40 CFR 1502.10 (c); SEPA, WAC 197-11- 440(3); and SMC, 25.05.440(B).</p>

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Chapter 1 INTRODUCTION TO THE PROJECT

1. Why was the Alaskan Way Viaduct and Seawall Replacement Project initiated?
2. Why do we need the project?
3. Who is leading the project?
4. Who will decide what will replace the viaduct and seawall and how can I be involved in this decision?

Purpose and Need will briefly be stated here, the entire purpose and need statement will be included at the back of the document. Purpose and need is required by NEPA, 40 CFR 1502.13; SEPA, 197-11-440(4), and SMC, 25.05.440 (C).

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Chapter 2 SUMMARY AND COMPARISON OF ALTERNATIVES

1. What is the purpose of this chapter?

2. Where is the project located?

Describe the location of the project as required by SEPA, WAC 197-11-440 (5)(c)(ii) and SMC, 25.05.443 (D)(3)(b).

3. What alternatives are evaluated in this Draft EIS?

4. How would the alternatives replace the seawall?

5. Are the estimated costs comparable between the alternatives?

6. How do the views and noise compare along the central waterfront?

7. How do the alternatives compare south of S. King Street?

8. How do the alternatives compare north of Battery Street Tunnel?

9. What will happen to the Battery Street Tunnel?

10. How do traffic speeds vary between the alternatives?

11. How do the alternatives carry different trips, and would travel times change?

12. How would the alternatives affect other roads?

13. Are some alternatives safer than others?

14. What happens to parking?

15. How would the alternatives affect the character and views along the central waterfront?

16. How do effects to parks, recreation, and open space compare between the alternatives?

Summary This is the summary chapter required by NEPA, 40 CFR 1502.12; SEPA, WAC 197-11-440(4); and SMC, 25.05.440(C). Questions 2-27 summarize information from other chapters in this EIS as required by the regulations.

17. How do changes to noise levels compare between the alternatives?

18. How do effects to fish and wildlife vary between the alternatives?

19. How do the alternatives affect water quality?

20. What other issues were considered in this Draft EIS and how do they compare between the alternatives?

How many buildings would need to be acquired to build the alternatives?

How would neighborhoods be affected?

Do effects to historic resources vary between the alternatives?

How would air quality differ between the alternatives?

Are effects to groundwater similar between the alternatives?

21. What will happen during construction?

22. How do effects to the character and views along the corridor compare during construction?

23. How does construction noise compare?

24. How would vibration effects during construction compare?

25. Do the construction effects to businesses and the local economy vary between the alternatives?

26. What other construction issues were considered?

Are any additional properties required for construction, and do the properties needed vary between the alternatives?

How do construction effects to parks and recreation compare between the alternatives?

How do construction effects compare for neighborhoods?

Would the elderly, disable, low-income, or minorities be affected during construction?

How do construction effects compare for utilities and public services?

How do air quality effects during construction compare?

Do construction effects to fish and wildlife vary between the alternatives?

Do construction effects to water quality and groundwater vary between the alternatives?

How much soil would be excavated and how much contaminated material would be removed by the alternatives?

How do construction effects to potential cultural/archeological artifacts compare?

27. What are the cumulative effects of major projects underway or planned in Seattle?

28. What issues are controversial?

Areas of controversy required by NEPA, 40 CFR 1502.12 and SEPA, WAC 197-11-440(4); and SMC, 25.05.440(C).

29. What issues remain to be resolved?

Unresolved issues required by NEPA, 40 CFR 1502.12; SEPA, WAC 197-11-440(4); and SMC, 25.05.440(C).

30. What adverse effects from the project would not be mitigated?

Adverse impacts that cannot be avoided are required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-440(4); and SMC, 25.05.440(C).

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Chapter 3 THE PROJECT AREA THEN AND NOW

1. What are the project boundaries and why were they selected?

Logical termini must be explained per NEPA, 23 CFR 771.111(f). Also, a description of the location is required by SEPA, WAC 197-11-440 (5)(c)(ii) and SMC, 25.05.443 (D)(3)(b).

2. What elements of Seattle's history have shaped the project area?

3. How has Seattle's history shaped the development of the seawall?

4. What is the seawall's condition today?

5. How has Seattle's history shaped the development of the viaduct?

6. What is the viaduct's condition today?

7. Why are the viaduct and seawall so important to Seattle, the Puget Sound region, and even the nation?

8. How much traffic travels on the viaduct daily?

9. Where are the people using the AWW Corridor coming from and going to?

10. What are typical travel times and traffic flow?

11. What are the existing conditions for specific users?

12. Are there any roadway deficiencies for vehicles and pedestrians?

13. How many parking spaces are provided in the AWW Corridor?

14. What visual features are located in the project area?

15. What are some of the positive and negative visual conditions created by the viaduct?

16. How noisy is it in the project area?

17. Are the neighboring buildings affected by vibration from traffic traveling on the viaduct?

Affected Environment
discussion is required by NEPA, 40 CFR 1502.15; SEPA, WAC 197-11-440(6); and SMC, 25.05.440(E). The affected environment is described in questions 2-30 of this Chapter.

18. What is the character and land use in the project area?
19. What parks and recreational facilities are located in the project area?
20. Who lives in the project area, and what population characteristics shape the neighborhood?
21. What community and social services serve these neighborhoods?
22. What utilities and public services are located in the project area?
23. What are the existing conditions for the local and regional economy?
24. Is air quality a concern?
25. What fish and wildlife species (including those threatened and endangered) are in the project area and what is their habitat like?
26. What are the existing water quality conditions in the Duwamish River, Elliott Bay, and Lake Union?
27. What are the nearshore sediment conditions in the Duwamish River, Elliott Bay, and Lake Union?
28. How is stormwater from the viaduct and Alaskan Way surface street currently managed?
29. What are the groundwater conditions in the project area?
30. Are there any potentially contaminated sites in the project area?

Chapter 4 DEVELOPING THE ALTERNATIVES

1. How were the alternatives developed?

A description of the alternatives is required by NEPA, 40 CFR 1502.14); SEPA, WAC 197-11-440(5); and SMC, 25.05.440(D).

2. How have the public and other interested agencies been involved in developing the alternatives?

Scoping and public involvement is required by NEPA, 40 CFR 1501.7 and 40 CFR 1506.6; SEPA, WAC 197-11-408(2)(a); and SMC, 25.05.408. Additional details about project scoping are contained in Appendix A.

3. How did ideas from the public and interested agencies shape the alternatives?

Scoping and public involvement is required by NEPA, 40 CFR 1501.7 and 40 CFR 1506.6; SEPA, WAC 197-11-408(2)(a); and SMC, 25.05.408. Additional details about project scoping are contained in Appendix A.

4. What ideas were considered but are not analyzed in the Draft EIS?

A discussion about alternatives considered, but rejected is required by NEPA, 40 CFR 1502.14; SEPA, WAC 197-11-440(5); and SMC, 25.05.440(D).

5. What alternatives are being studied in this Draft EIS?

A description of the alternatives considered is required by NEPA, 40 CFR 1502.14; SEPA, WAC 197-11-440(5); and SMC, 25.05.440(D).

6. What is the difference between alternatives and options?

7. What is the No Build Alternative?

A description and summary of the No Action Alternative is contained in this section as required by NEPA, 40 CFR 1502.14(d), and SEPA, WAC 197-11-440(5)(ii); and SMC 25.05.440(D)(b). In this EIS, the No Action Alternative has been called the No Build Alternative.

Alternatives Considered

Chapter 4 describes the alternatives considered, the alternatives rejected, and those selected for further study as required. It includes the No Build (Do Nothing), and Build Alternatives (and options).

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Chapter 5-9 ALTERNATIVES

1. What is the ____ Alternative?

Provides a description of the alternative as required by NEPA, 40 CFR 1502.14 (b); SEPA, WAC 197-11-440(5)(c); and SMC, 25.05.440(D)(3)

2. How would the ____ Alternative be built?

Provides a brief summary of how an alternative would be built. More detail is provided in Chapter 10.

3. How would the ____ Alternative change access?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(c)(v); and SMC (25.05.444(B)(3)(e) and 25.05.675 (R).

4. How would the ____ Alternative affect travel times and traffic flow?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(c)(ii); and SMC, 25.05.444(B)(3) and 25.05.675(R).

5. How would the ____ Alternative change conditions for freight and transit?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(c)(iii) and WAC 197-11-444 (2)(c)(v); and SMC, 25.05.444(B)(3)(c), 25.05.444(B)(3)(e), and 25.05.675(R).

6. How would the ____ Alternative improve roadway safety?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(c)(vi); and SMC, 25.05.444(B)(3)(f) and 25.05.675(R).

7. How would the ____ Alternative affect parking?

Required by NEPA, 40 CFR 1502.16; WAC 197-11-444(2)(c)(iv); and SMC, 25.05.444(B)(3)(d) and 25.05.675(M).

8. If the ____ Alternative were built, what would it look like?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(b)(iii) and WAC 197-11-444 (2)(b)(iv); and SMC, 25.05.444(B)(2)(c), 25.05.444(B)(2)(d), 25.05.675(G), 25.05.675(K), and 25.05.675(P).

Operational Impacts and Mitigation for both direct and indirect effects are described by Alternative in Chapters 5-9. The alternatives are compared in Chapter 2, the summary chapter.

Construction Impacts and Mitigation for both direct and indirect effects are discussed in Chapter 10.

Resources that are only affected during construction (such as utilities or archaeology), are only described in the construction chapter.

The impacts and mitigation information is required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-440(6); and SMC, 25.05.440(E) Documentation for specific elements of the environment is required by SEPA, WAC 197-11-444; and SMC, 25.05.444.

9. How would noise or vibration levels change?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(a)(i); and SMC, 25.05.444(B)(1)(a) and 25.05.675(L).

10. How would the _____ Alternative change character and land use in the project area?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(b); and SMC, 25.05.444(B)(2) and 25.05.675(J).

11. How would the _____ Alternative affect parks, recreation, and open space?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(d)(iv); and SMC, 25.05.444(B)(4)(d) and 25.05.675(Q).

12. How would the _____ Alternative affect neighborhoods and the people who live there?

Required by NEPA, 40 CFR 1502.16 and NEPA Executive Order 12898; SEPA, WAC 197-11-444(2)(b)(i); and SMC, 25.05.444(B)(2)(a).

13. Would the _____ Alternative affect community and social services?

Required by NEPA, 40 CFR 1502.16 and NEPA Executive Order 12898; SEPA, WAC 197-11-444 (2)(d); and SMC, 25.05.444(B)(4).

14. What residences, businesses, or other properties would need to be acquired?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444 (2)(b)(ii); and SMC, 25.05.444(B)(2)(b) and 25.05.675(I) [housing only].

15. How would the _____ Alternative affect historic resources?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(2)(b)(vi); and SMC 25.05.444(B)(2)(f) and 25.05.675(H).

16. How would the _____ Alternative affect public services (such as police and fire)?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444 (2)(d)(i) and WAC, 197-11-444 (2)(d)(ii); and SMC, 25.05.444(B)(4)(a), 25.05.444(B)(4)(b), and 25.05.675(O).

17. How would the _____ Alternative affect the local and regional economy?

Required by NEPA, 40 CFR 1502.16 and SMC, 25.05.440(E)(6).

18. Would the _____ Alternative change air quality?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(1)(b)(i); and SMC, 25.05.444(A)(2)(a) and 25.05.675(A).

19. How would the _____ Alternative affect fish and wildlife species and their habitat?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(1)(d); and SMC, 25.05.444(A)(4) and 25.05.675(N).

20. Would the _____ Alternative change water quality?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(1)(c); and SMC, 25.05.444(A)(3), 25.05.675(C), and 25.05.675(S).

21. How would the _____ Alternative change the soil conditions once the project is completed?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(1)(a)(ii); and SMC, 25.05.444(A)(1)(b) and 25.05.675(D).

22. Would the _____ Alternative change groundwater flows?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444(1)(c)(iv); and SMC, 25.05.444(A)(3)(d).

23. Would the _____ Alternative create or remove any contaminated materials or sites?

Required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-444 (2)(a)(iii); and SMC, 25.05.444(B)(1)(c) and 25.05.675(F).

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Chapter 10 CONSTRUCTION IMPACTS AND MITIGATION

1. How long will it take to build the project?
2. How would the alternatives and options be built?
3. What traffic detours are proposed during construction?
4. How will traffic and drivers be affected during construction?
5. What properties would be required for construction, and would construction affect land use?
6. How would views be affected during construction?
7. What would noise be like during construction?
8. How would vibration affect the area during construction?
9. How would parks, recreation, and open space be affected during construction?
10. How would neighborhoods be affected during construction?
11. Would the elderly, disabled, low-income, or minorities be affected during construction?
12. How would construction affect historic resources?
13. How would utilities and public services be affected during construction?
14. How would the economy and local businesses be affected during construction?
15. How would air quality be affected by construction?
16. How would fish and wildlife be affected by construction?
17. How would water quality be affected by construction?

Construction Impacts and Mitigation for all of the alternatives are contained in this chapter as required by NEPA, 40 CFR 1502.16; SEPA, WAC 197-11-440 (6); and SMC, 25.05.440(E).

18. How would soil and contaminated materials be affected during construction?
19. Would potential cultural/archeological artifacts be affected by disturbing soils in the project area?

Chapter 11 OTHER THINGS TO CONSIDER

1. What are cumulative effects and why do we study them?

Required by NEPA, 40 CFR 1508.7; SEPA, WAC 197-11-792 (2)(a)(iii); and SMC, 25.05.670 and 25.05.792 (B)(3)(c).

“Other items” required by NEPA, SEPA, and the SMC.

2. What other projects are underway or planned in Seattle and what are their possible cumulative effects?

Required by NEPA, 40 CFR 1508.7; SEPA, WAC 197-11-792 (2)(a)(iii), and SMC, 25.05.670 and 25.05.792 (B)(3)(c).

3. What about indirect effects?

Required by NEPA, 40 CFR 1502.16(b) and NEPA 1508.8; SEPA, WAC 197-11-792 (2)(a)(ii); and SMC, 25.05.792(B)(3)(b). In this Draft EIS indirect effects are defined in this chapter and question, but their potential effects and mitigation are discussed in Chapters 5-9 as part of the overall effects analysis. This approach is supported by NEPA, 40 CFR 15002.16 and 40 CFR 1508.8.

4. What irreversible decisions or irretrievable resources would be committed to building the project?

A discussion about irreversible decisions or irretrievable resources is required by NEPA, 40 CFR 1502.16; SEPA; SEPA, WAC 197-11-440(6)(d)(iii); and SMC, 25.05.440(E)(4)(c).

In addition, the subject of energy is summarized here and discussed in detail in an attached appendix as required by NEPA, 40 CFR; SEPA, WAC 197-11-440(d)(ii); and SMC, 25.05.440(E)(4)(b).

Energy is specifically discussed here as required by NEPA, SEPA, and the SMC.

5. What are the tradeoffs between short-term uses of environmental resources and long-term gains (or productivity) from the project?

A discussion about short-term uses and long-term gains is required by NEPA, 40 CFR 1502.16.

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Acronyms

Index

An **Index** is required by NEPA, 40 CFR 1502.10(j).

References

List of Preparers

List of Preparers is required by NEPA, 40 CFR 1502.17

List of Appendices

Information as required by NEPA , 40 CFR 1502.18; SEPA, WAC 197-11-430 (g) and 197-11-440(7); and SMC, 25.05.440(F).

The appendices include a discussion of methodology as required by NEPA, 40 CFR 1502.24.

Distribution List

List of copies sent to Agencies as required by NEPA, 40 CFR 1502.19; SEPA, WAC 197-11-430 (f); and SMC 25.05.430(B)(6).

Purpose and Need Statement

Purpose and need is required by NEPA, 40 CFR 1502.13.

Comment Form

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