

PRE APPLICATION DOCUMENT (PAD) ADEQUACY REVIEW CHECKLIST  
PURSUANT TO 18 CFR § 5.6

**Pre Application Document: Adequacy Review Checklist**  
**18 CFR § 5.6**

SUBJECT	ADEQUATE	COMMENTS
<p>§ 5.6 (d)(1) - Process plan and schedule</p> <p>Time frames for pre-application consultation, information gathering, and studies</p> <p>Proposed location and date for scoping meeting and for the site visit § 5.8 (b)(3)(viii)</p>		
<p>§ 5.6 (d)(2) - Project location, facilities, and operations</p> <p>(i) Contact information for applicant's agents (name, address and phone numbers)</p> <p>(ii) Maps of land use within project boundaries (township, range and section, state, county, river, river mile, and closest town) and, if applicable, Federal and Tribal lands, and location of proposed facilities</p> <p>(iii) Detailed description of proposed facilities</p> <p>(A) Composition, dimensions, and configuration of dams, spillways, penstocks, powerhouses, tailraces, etc.</p> <p>(B) Reservoir area, gross and usable capacity, and elevation.</p> <p>(C) Number, type and capacities of turbines and generators, and installed (rated) capacity of proposed turbines or generators</p> <p>(D) Transmission line numbers, lengths, voltage, and interconnections (including diagrams)</p> <p>(E) Energy production (estimate of dependable capacity, average annual, and average monthly energy production)</p>		

SUBJECT	ADEQUATE	COMMENTS
(iv) Current and proposed project operation		
Information provided by applicants when there is an existing license		
(v) Existing license and project operations (if applicable) <ul style="list-style-type: none"> <li>(1) Description of current license requirements</li> <li>(2) Generation and outflow records (5 years)</li> <li>(3) Current net investment</li> <li>(4) Project compliance history</li> </ul>		
Information provided by all applicants		
(vi) Description of proposed physical and operational changes to project		
§ 5.6 (d)(3) - Existing environment and resource impacts (based on existing, relevant and reasonably available information) <ul style="list-style-type: none"> <li>(A) Description of existing environment (See ii-xiii)</li> <li>(B) Summaries of existing data or studies</li> <li>(C) Potential adverse impacts and issues related to project construction, operation, or maintenance</li> <li>(D) Existing or proposed resource protection and mitigation measures (facilities, operations, and management activities)</li> </ul>		
§ 5.6 (d)(3)(ii) - Geology, topography, and soils (descriptions and maps) <ul style="list-style-type: none"> <li>(A) Description of geological features, including bedrock lithology, stratigraphy, structural features, glacial features, unconsolidated deposits, and mineral</li> </ul>		

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<p>resources</p> <p>(B) Description of soil types, occurrence, physical and chemical characteristics, erodability and potential for mass soil movement, and soil characteristics</p> <p>(C) Description of reservoir shorelines and stream banks, including</p> <p style="padding-left: 20px;">(1) Steepness, composition, and vegetative cover</p> <p style="padding-left: 20px;">(2) Existing soil instability</p>		
<p>§ 5.6 (d)(3)(iii) - Water resources (quality and quantity)</p> <p>(A) Drainage area</p> <p>(B) Adjusted minimum, mean, and maximum recorded flows at powerplant intake or diversion</p> <p>(C) Monthly flow duration curve and critical stream flow used to determine the project's dependable capacity</p> <p>(D) Existing and proposed water uses and upstream or downstream requirements</p> <p>(E) Existing instream flow uses and water rights</p> <p>(F) Relevant federally-approved water quality standards</p> <p>(G) Project effects on seasonal variation of water quality data, including</p> <p style="padding-left: 20px;">(1) Water temperature and dissolved oxygen</p> <p style="padding-left: 20px;">(2) Other physical and chemical parameters</p> <p>(H) Existing or proposed lake and reservoir information (surface area, volume, maximum depth, mean depth, flushing rate, shoreline length, substrate composition)</p>		

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(l) Gradient for affected downstream reaches		
<p>§ 5.6 (d)(3)(iv) - Fish and aquatic resources: description and impacts</p> <p>(A) Identification of existing fish and aquatic communities</p> <p>(B) Identification of essential fish habitat</p> <p>(C) Temporal and spatial distribution of fish and aquatic communities and trends with respect to:</p> <p>(1) Species life stage composition</p> <p>(2) Standing crop</p> <p>(3) Age and growth data</p> <p>(4) Spawning run timing</p> <p>(5) Extent and location of spawning, rearing, feeding, and wintering habitat</p>		
<p>§ 5.6 (d)(3)(v) - Wildlife and botanical resources including invasive species</p> <p>(A) Description of upland habitat(s) and plant and animal species that use the habitat(s).</p> <p>(B) Temporal or special distribution of commercially, recreationally, or culturally important species</p>		
<p>§ 5.6(d)(3)(vi) Description of floodplains, wetlands, riparian, and littoral habitat</p> <p>(1) List of plant and animal species using the habitat</p> <p>(2) Map of wetlands, riparian and littoral habitat</p>		

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(3) Acreage estimate for each type of land including variability connected to project operations		
<p>§ 5.6 (d)(3)(vii) - Rare, threatened, and endangered species</p> <p>(A) Description of listed rare, threatened and endangered, candidate, or special status species in the project vicinity.</p> <p>(B) Identification of habitat requirements</p> <p>(C) References to known biological opinion, status reports, or recovery plans pertaining to a listed species</p> <p>(D) Extent and location of federally-designated critical habitat or other habitat for listed species</p> <p>(E) Temporal and spatial distribution of the listed species</p>		
<p>§ 5.6 (d)(3)(viii) - Recreation and land use</p> <p>(A) Description and illustration of existing recreational facilities, uses, location, ownership, capacity and management</p> <p>(B) Recreational use of lands and waters compared to facility or resource capacity</p> <p>(C) Existing shoreline buffer zones</p> <p>(D) Current and future recreation needs from existing state or regional plans</p> <p>(E) Existing shoreline management policies</p> <p>(F) Project's location within or adjacent to a river segment that is:</p>		

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<p>(1) Designated or under study for inclusion in the National Wild and Scenic River system</p> <p>(2) A state-protected river segment</p> <p>(G) Description of project lands under study for inclusion in the National Trails System or as a Wilderness Area</p> <p>(H) Regionally or nationally important recreation areas</p> <p>(I) Non-recreational land use and management within the project boundary</p> <p>(J) Recreational and non-recreational land use and management adjacent to the project boundary</p>		
<p>§ 5.6 (d)(3)(ix) – Aesthetic Resources</p>		
<p>Description of the visual characteristics of facilities, affected lands, and affected waters</p>		
<p>§ 5.6 (d)(3)(x) - Cultural Resources</p> <p>(A) Identification of any historic or archaeological site in the proposed project vicinity especially those listed in or recommended for the National Register of Historic Places</p> <p>(B) Description of existing discovery measures for locating, identifying, and assessing the significance of resources</p> <p>(C) Identification of Indian tribes that may attach religious and cultural significance to historic properties, and available information on Indian traditional cultural and religious properties.</p>		
<p>§ 5.6 (d)(3)(xi) - Socio-economic resources</p>		

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<p>Description of socio-economic conditions in the project vicinity including patterns of land use and population and sources of employment</p>		
<p>§ 5.6 (d)(3)(xii) - Tribal Resources</p> <p>(A) Identification of how existing project construction and operations, and their affects (on water resources, fish and aquatic resources, wildlife and botanical resources, wetland, rare species, recreation and land use, aesthetic resources, cultural resources and socio-economic resources) may impact tribal cultural or economic interests</p> <p>(B) Identify other impacts of existing projects on Indian tribes</p>		
<p>§ 5.6 (d)(3)(xiii) - Description of river basin and sub-basin including information on:</p> <p>(A) Area of river basin and sub-basin and length of stream reaches</p> <p>(B) Major land and water use in project area</p> <p>(C) All dams and diversion structures</p> <p>(D) Potentially affected tributary rivers and streams</p>		
<p>§ 5.6 (d)(4) - Preliminary issues and studies list for each resource area</p> <p>(i) Issues pertaining to the identified resources</p> <p>(ii) Potential studies and information gathering requirements</p> <p>(iii) Relevant Federal, state or tribal waterway plans</p>		



SUBJECT	ADEQUATE	COMMENTS
(iv) Relevant resource management plans		
§ 5.6 (d)(5) - Summary of contacts used to prepare the PAD including:  Federal, state and interstate resource agencies  Indian tribes  Non-governmental organizations and members of the public		
§ 5.6 (e) PURPA Benefit – List if the PURPA benefits are sought		

ADDITIONAL COMMENTS: