

TK  
479Site No. 19050002-137

## UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County \_\_\_\_\_ Site Broad Pass  
 Location Section 10, T 20S, R 9W, Fairbanks Meridian Stream E. FK CHULITNA River  
 Planned by (date) USGS  
 Reference HEALY (A-S) Alaska LLB 1962/53 Date 1952  
 Quadrangle coverage HEALY (A-S) ALASKA  
 Land: Public \_\_\_\_\_ Private \_\_\_\_\_ Use: P, I, FC, MI, R

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| <small>WS AAT = 2170</small><br>Dam: Height <u>230 feet</u> Length _____ | Undeveloped capacity <sup>at Dam</sup> <u>9.216 MW theoretical</u> |
| Normal pool altitude <u>2400 feet</u>                                    | Percent efficiency <u>95% = 1.9 MW</u>                             |
| Reservoir area <u>534.56 acres</u>                                       | Annual generation _____  |
| Storage capacity <u>41,428 acre feet</u>                                 | Plant factor <u>277 cfs = 200,500 acft/yr</u>                      |
| Drainage area <u>138.5 square miles</u>                                  | Mean flow <u>471.44 cfs = 341,322 acft/yr.</u>                     |
| Gross head <u>230' at site</u>   | Period of record <u>14 yrs (1975) 9992 15292400, area ratio</u>    |

Remarks: Comparison with gaging station 15292400 probably gives too much flow because there are only a few small glaciers in E.F. Chulitna R. basin. About 2 cfs/sq mi seems more reasonable.  
 $Q_{50} \text{ flow} = 277/2.9 = 96 \text{ cfs}$

Prepared by JSC Date 12/78  
8/78