

**FINAL APPLICATION FOR LICENSE
OF MAJOR UNCONSTRUCTED PROJECT**

EXHIBIT C

**PROPOSED PROJECT
CONSTRUCTION SCHEDULE**

**LAKE ELSINORE
ADVANCED PUMPED STORAGE PROJECT
FEDERAL ENERGY REGULATORY COMMISSION
PROJECT NUMBER 14227**

Applicant:

THE NEVADA HYDRO COMPANY, INC.

2416 Cades Way
Vista, California 92081
(760) 599-1813
(760) 599-1815 FAX

September 2017

Table of Contents

List of Sections

<u>Section</u>	<u>Page</u>
1.0 PROPOSED COMMENCEMENT AND COMPLETION DATES	1
1.1 Overall Schedule	2
1.2 Prior to Start of Construction	2
1.3 Representative Construction Activities	2
1.3.1 First Year of Construction	2
1.3.2 Second Year of Construction	3
1.3.3 Third Year of Construction	3
1.3.4 Fourth Year of Construction	4
2.0 COMMERCIAL OPERATION COMMENCEMENT DATE	5
2.1 Unit 1 Start Schedule	5
2.2 Unit 2 Start Schedule	5
3.0 PREVIOUSLY CONSTRUCTED UNLICENSED FACILITIES	5

List of Tables

<u>Table</u>	<u>Page</u>
Table C-1: Proposed Commencement and Completion Dates	1

This page intentionally left blank.

EXHIBIT C

PROPOSED PROJECT CONSTRUCTION SCHEDULE

As required under 18 CFR 4.41(d), the Applicant (all references to the Applicant herein refer to The Nevada Hydro Company, Inc.) must prepare a proposed construction schedule for the project. The information required may be supplemented with a bar chart. The construction schedule must contain:

- (1) The proposed commencement and completion dates of any new construction, modification, or repair of major project works;
- (2) The proposed commencement date of first commercial operation of each new major facility and generating unit; and
- (3) If any portion of the proposed project consists of previously constructed, unlicensed water power structures or facilities, a chronology of original completion dates of those structures or facilities specifying dates (approximate dates must be identified as such) of:
 - (i) Commencement and completion of construction or installation;
 - (ii) Commencement of first commercial operation; and,
 - (iii) Any additions or modifications other than routine maintenance.

1.0 Proposed Commencement and Completion Dates

Key dates/assumptions for the construction schedule are as follows:

Table C-1
PROPOSED COMMENCEMENT AND COMPLETION DATES

Submission of License Application to FERC	September 2017
License Granted by FERC	September 2018
Completion of Project Financing Arrangements	October 2018
Commencement of Project Engineering and Construction	January 2019
First Generating Unit On Line (Commercial Operation)	October 2022
Entire Facility Substantially Complete	December 2020

1.1 Overall Schedule

During the licensing period, project procurement and construction financing will be put in place, land purchase agreements will be finalized, power sales and purchase agreements or other revenue recovery mechanisms will be finalized, and contracts for the major mechanical, and electrical equipment, and for the civil construction will be placed. As currently planned, construction activities will commence immediately upon FERC approval after the license is granted.

Commissioning of most of the Project will occur approximately 4 years after commencement of construction. The facility will be commissioned 2 months thereafter.

1.2 Prior to Start of Construction

It is anticipated that the bulk of the project will be handled under one or more major contracts including, for example:

- Supply and installation of pump-turbine/motor-generators and associated governors, valves and switch gear; and,
- Civil construction contract for the construction of the upper reservoir and underground facilities. Alternatively, the construction of the upper reservoir may be handled under a separate contract.

Optimization and development of the detailed designs will be initiated prior to the award of the FERC license, so that the requisite arrangements can be made to allow construction to start as soon as possible after the award of the license.

1.3 Representative Construction Activities

1.3.1 First Year of Construction

- | | | |
|-----|-----------------|--|
| (a) | General | Construct temporary access from Killen Trail Road to upper reservoir area |
| | | Construct roads from upper reservoir to the access tunnel portal and to the intake/outlet structure in Lake Elsinore |
| | | Construct temporary offices, maintenance, laydown and parking areas |
| (b) | Access Shaft | Start excavation |
| (c) | Tailrace Tunnel | Build cofferdam |
| | | Start excavation |
| (d) | Upper Reservoir | Prepare embankment areas to receive excavation spoil |

EXHIBIT C – PROPOSED CONSTRUCTION SCHEDULE

FERC Project No. 14227

- (e) Transmission Line Clear transmission corridor
Start installation of transmission line and switchyard
- (f) Access Shaft Complete excavation and lining, including temporary access tunnel
- (g) Tailrace Tunnel #1 Continue excavation and start lining
- (h) Power Tunnel #1 Start excavation via temporary access tunnel
- (i) Powerhouse Start excavation of main cavern

1.3.2 Second Year of Construction

- (a) Tailrace Tunnel #2 Complete excavation and lining
- (b) Power Tunnel #2 Complete excavation and concrete lining
- (c) Power Shaft #2 Complete pilot drill
Complete raise bore
Start excavation to full diameter
- (d) Transmission Line Complete installation of transmission line and switchyard
Interconnect with existing line
- (e) Powerhouse Complete excavation of main cavern, transformer gallery, surge chamber, and ancillary tunnels
- (f) Power Shaft Complete excavation and lining
- (g) Powerhouse Start concreting in main chamber substructure
Pilot drill and raise vent shaft
Install crane
Start installation of pump-turbine embedded parts

1.3.3 Third Year of Construction

- (a) Lower Intake / Outlet Structure Start excavation within cofferdam
Start concreting of structure
Start landscaping and recreational areas

-
- | | | |
|-----|----------------------------------|---|
| (b) | Upper Reservoir | <ul style="list-style-type: none"> Start excavation Continue construction of embankments Start intake/outlet structure |
| (b) | Powerhouse | <ul style="list-style-type: none"> Complete concreting of all chambers Complete lining of vent shaft Complete installation of pump-turbine embedded pans Start installation of remaining pump-turbine parts Start installation of motor-generators Start installation of governors and controls Plug temporary access tunnel Flood water passages Complete mechanical-electrical installation for first unit Install draft tube gates Start installation of transformers and power cabling |
| (c) | Lower Intake
Outlet Structure | <ul style="list-style-type: none"> Complete landscaping and recreational area Complete construction of structure Install trash racks Breach and remove cofferdam |
| (d) | Upper Reservoir | <ul style="list-style-type: none"> Complete intake/outlet structure Complete excavation Complete embankment placement Install lining Start landscaping |

1.3.4 Fourth Year of Construction

- | | | |
|-----|------------|---|
| (a) | Powerhouse | <ul style="list-style-type: none"> Complete installation of remaining pump-turbine parts and motor-generators Complete installation of governor, controls, and mechanical-electrical systems Commission first unit Commission second unit |
|-----|------------|---|

- (b) General
 - Complete landscaping
 - Improve access roads and surrounding areas
 - Complete cleanup activities

2.0 Commercial Operation Commencement Date

The date of Commercial Operation Commencement: December 2022

2.1 Unit 1 Start Schedule

Start Date: October 2022

2.2 Unit 2 Start Schedule

Start Date: October 2022

3.0 Previously Constructed Unlicensed Facilities

There are no previously constructed unlicensed facilities.

This Page Intentionally Left Blank