

The Deep Underground Neutrino Experiment and Long-Baseline Neutrino Facility Projects

Conceptual Design Report

Volume 1

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CHANGE LOG

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ABBREVIATIONS AND ACRONYMS

Modify and use the list below based on your project:

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LIST OF FIGURES

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1 EXECUTIVE SUMMARY

<This is a 2 page summary to be written after the rest is completed>

2 THE SCIENCE OF DUNE

<This is a 6 page summary.>

3 THE DESIGN OF THE DUNE AND LBNF PROJECTS

3.1 LBNF

<This is a 3 page summary, subsections shown below>

3.1.1 Overview

3.1.2 Neutrino Beamline

3.1.3 Conventional Facilities

3.1.4 Cryogenic System and Cryostats for the Far Detector

3.2 DUNE

<This is a 3 page summary, subsections shown below>

3.2.1 Overview

3.2.2 Near Detector System

3.2.3 Far Detector

3.2.4 Prototyping Program

4 ORGANIZATION AND MANAGEMENT

4.1 Two Projects in an International Context

<This is a 2 page summary, subsections shown below>

4.1.1 Project Structure

4.1.2 International Advisory Committee (IAC)

4.1.3 Fermilab as Host Laboratory

4.1.4 Resource Research Board (RRB)

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4.1.6 Experiment - Facility Interface Group (EFIG)

4.1.7 Fermilab Oversight Mechanisms

4.1.8 DUNE Collaboration

4.1.9 LBNF Project

4.1.10 Joint Management Team

4.2 LBNF Project Organization

<This is a 2 page summary, subsections shown below>

4.2.1 LBNF Project Office

4.2.2 Neutrino Beamline

4.2.3 Conventional Facilities

4.2.3.1 Conventional Facilities at the Near Site (Fermilab)

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4.2.4 Cryogenics and Cryostat

4.2.4.1 Cryogenics System

4.2.4.2 Cryostats for the DUNE Far Detector

4.3 DUNE Project Organization

<This is a 2 page summary, subsections shown below>

4.3.1 Collaboration Organization

4.3.2 Far Detector

4.3.3 Near Detector

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5 PROJECT STRATEGY

5.1 Global Scientific Strategy

<This is a 3 page summary.>

5.2 Strategy for the Far Detector and Supporting Facilities

<This is a 3 page summary.>

5.3 Strategy for the Near Detector and Supporting Facilities

<This is a 2 page summary.>

5.4 Strategy for the Neutrino Beamline and Supporting Facilities

<This is a 2 page summary.>

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6 REFERENCES

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