Appendix A. Guide and Links to Other NOνA Project Documentation

A.1 Introduction

In addition to this Technical Design Report, there are a large number of supporting documents for the NOνA project assembled by the Integrated Project Team. This Appendix serves as a guide to these documents. A short description of each document is provided and a link to each document is embedded in the text.

A.2 Department of Energy Documents

A.2.1 Critical Decision Zero, November 29, 2005

The DOE issued a Critical Decision Zero on November 29, 2005 calling for a program to study electron neutrino appearance. The document can be found at http://www.science.doe.gov/hep/Eva.pdf.

A.2.2 Neutrino Scientific Assessment Group (NuSAG) Report, February 28, 2006

NuSAG evaluated the physics potential and feasibility of various long baseline and reactor-based neutrino oscillation experiments including NOνA. Their report, *Recommendations to the Department of Energy and the National Science Foundation on a U.S. Program of Reactor and Accelerator-based Neutrino Oscillation Experiments* can be found at http://www.science.doe.gov/hep/NuSAG2ndRptFeb2006.pdf.

A.2.3 Critical Decision One Review Close-out, April 2006

A DOE Review of the NOνA Project was conducted in April 2006 to determine compliance with the requirements for Critical Decision One (CD-1). The committee recommended CD-1 approval. The final report from the committee is NOνA-doc-1302.

A.2.4 P5 Report, October 2006

The Particle Physics Project Prioritization Panel (P5) issued their report *The Particle Physics Roadmap* in October of 2006. The report discusses off-axis neutrino experiments and recommends the construction of NOνA. The report can be found at http://www.science.doe.gov/hep/P5RoadmapfinalOctober2006.pdf.

A.2.5 Acquisition Strategy

The Acquisition Strategy document for NOνA is a DOE document that provides a relatively high level description of the project including the technical objectives, alternatives, schedule range, cost range and management structure. The Acquisition Strategy is NOνA-doc-1361.

A.2.6 Critical Decision One

A.2.7 Project Execution Plan (PEP)

The Project Execution Plan (PEP) is a DOE document that establishes roles and responsibilities, and describes in detail the manner in which a project is to be managed and executed. The PEP is also the primary agreement between the DOE and NOνA on project planning and objectives, and is to be prepared, submitted, and approved by CD-2. The PEP for NOνA is NOνA-doc-130.

A.2.8 Environmental Assessment (EA)

The Environmental Assessment (EA) is a document that is submitted to the DOE that assesses the potential impact of the activities associated with NOνA on safety, health and the environment. The NOνA EA covers activities at Fermilab, Ash River and Universities engaged in NOνA Project work. This document goes together with the State of Minnesota Environmental Assessment Worksheet (NOνA-doc-205) to satisfy both Federal and State requirements. The EA is NOνA-doc-2646.

A.3 NOνA Project Office Documents

A.3.1 Project Management Plan (PMP)

The NOνA Project Management Plan follows from the Project Execution Plan and establishes roles and responsibilities within the NOνA Project and describes in detail the manner in which the project will be managed. The PMP is NOνA-doc-129.

A.3.2 NOνA Cost and Schedule

The NOνA cost and schedule currently only resides in Open Plan and is not generally accessible.

A.3.3 Quality Management Plan

NOνA's Quality Management Plan is described in NOνA-doc-1353.

A.3.4 Earned Value Management System (EVMS)

Fermilab's Earned Value Management System (EVMS) is a comprehensive system that develops and maintains the baseline, tracks project cost, schedule, and scope and provides for the

generation of timely performance measurement data and reports. Fermilab's EVMS system is described in NOνA-doc-1084.

A.3.5 Risk Management Plan

The Risk Management Plan (RMP) for NOνA provides a structured and integrated process for identifying, evaluating, tracking, abating, and managing project risks. The NOνA Risk Management Plan is described in NOνA-doc-185.

A.3.6 NOνA Risk Registry

The NOνA risk registry is a tool for Project Management to keep track of high risks items in the project. The risk registry is NOνA-doc-1323.

A.3.7 Security Vulnerability Assessment Report

A Preliminary Security Vulnerability Assessment was preformed for NOνA. The assessment is documented in NOνA-doc-1442.

A3.8 State of Minnesota Environmental Assessment Worksheet (EAW)

The Environmental Assessment Worksheet (EAW) is the form used by the State of Minnesota to assess potential impacts to the environment, safety and health. The NOnA EAW covers the activities that will be performed at the Far Detector site in Ash River, Minnesota during both the construction and operation phases. The EAW is NOνA-doc-205.

A.3.9 Hazard Analysis

The Fermilab Environmental, Safety and Health Manual (FESHM) requires projects to identify hazards and describe how the risks will be mitigated. The NOnA Hazard Analysis is described in NOνA-doc-618.

A.3.11 Preliminary Safety Assessment Document

NOνA has performed and documented a preliminary hazard/risk analysis for each phase of the project in order to systematically identify any hazards that may be present. The assessment can be found in NOνA-doc-598.

A.3.12 Contingency Analysis Rules

The rules for determining contingency for the NOνA Project are described in NOνA-doc-616.

A.3.13 NOνA Proposal, March, 2005

The NOνA Proposal is NOνA-doc-593.

A.3.14 NOνA Conceptual Design Report, March 2006

The NOνA Conceptual Design Report is NOνA-doc-536.

A.3.15 NOνA Configuration Management Plan

The NOνA Configuration Management Plan identifies the organization providing configuration control, defines what a configuration-controlled item is, describes the change control process, and identifies the plan for configuration status accounting and verification. The plan is described in NOνA-doc-131.

A.3.16 Acquisition Plan for NOνA Cost Drivers

The Acquisition Plan for NOνA describes the strategy for acquiring the relatively few items that drive the cost of the Project. The plan is described in NOνA-doc-1321.

A.3.17 Start-Up Test Plan for the NOνA Project

The Start-up Test Plan describes the strategy for System check-out and verification of performance for the various NOνA subsystems. The plan is described in NOνA-doc-2646.