References

[4\_old]

“Draft MOU between LBNE and the Fermilab Directorate,” 2012.

http://

lbne2-docdb.fnal.gov:8080/cgi-bin/ShowDocument?docid=6319.

[1-POT-new] Proton Improvement Plan II, <http://projectx-docdb.fnal.gov/cgi-bin/RetrieveFile?docid=1232>

[2-POT-new] Proton Improvement Plan I; B. Pellico, Accelerator Division Document 4053-v3.

[3-POT-new] Historical Accelerator data and I. Kourbanis, private communication.

[23\_old]

N.Mokhov, “The Mars Code System User’s Guide,” tech. rep., 2009. Fermilab-FN-628.

[5\_old]

“Alternatives Analysis.” LBNE Project Management Team - LBNE Doc 4382, 2012.

[6\_old]

V. Papadimitriou, “Decision on the depth and extraction point of the LBNE Neutrino

Beamline,” tech. rep., FNAL, 2011. LBNE:DocDB-5122.

[7\_old]

I. Kourbanis, “MI Beam Power for Different Energies,” tech. rep., 2010. Accelerator Division Document 3716.

http://beamdocs.fnal.gov/AD-public/DocDB/ShowDocument?docid=3716

.

[8\_old]

“Accelerator Performance Charts.”

http://www-bd.fnal.gov/pplot/

.

[9\_old]

“Methodical Accelerator Design (MAD).” CERN - Accelerator Beam Physics Group

http://mad.home.cern.ch/mad/

.

[10\_old]

D.Harding. Magnet Test Facility measurement database private communication (Fer-

milab AD) .

[11\_old]

V. Bocean (Fermilab PPD/Alignment) private communication.

[12\_old]

Fermilab, “Fermilab ES&H Manual”, <http://esh.fnal.gov/xms/FESHM>.

[13\_old]

“Fermilab Engineering Manual, v07/10,” tech. rep., 2010.

http://www.fnal.gov/

directorate/documents/FNAL\_Engineering\_Manual.pdf.

[14\_old]

I.Baishev, A.Drozhdin, N.Mokhov, and X.Yang, “STRUCT Program User’s Refer-

ence Manual,” 1994. SSC Doc: SSCL–MAN–0034

http://www-ap.fnal.gov/users/

drozhdin/.

[15\_old]

N. Mokhov and S. Striganov, “MARS15 Overview, Hadronic Shower Simulation Work-

shop AIP Proceedings 896,” tech. rep., 2007. Fermilab-Conf-07-008-AD.

[16\_old]

“NuMI Technical Design Handbook, Sec. 4.4,” tech. rep., 2003.

http://www-numi.

fnal.gov/numwork/tdh/tdh\_index.html .

[17\_old]

V.Zarucheisky et al., “NOvA Target Hall Baffle Specification,” 2010.

[18\_old]

M.Martens, J.Hylen, and K.Anderson, “Target and Horn Configuration for the NOvA

Experiment,” tech. rep., 2009.

http://www.fnal.gov/directorate/documents/FNAL\_Engineering\_Manual.pdf.

[19\_old]

C.Densham

et al.

, “Conceptual Design Study of the LBNE Target and Beam Window,”

tech. rep., 2010. LBNE Doc 2400.

[20\_old]

N.Simos et al.

, “Long Baseline Neutrino Experiment (LBNE) Target Material Radiation

Damage from Energetic Protons of the Brookhaven Linear Isotope Production (BLIP)

Facility,” tech. rep., 2012. LBNE Doc 5724.

[21\_old]

B.Lundberg, “Specifications for Beam Simulations,” tech. rep., 2009. LBNE Doc 2161.

[22\_old]

“NuMI Technical Design Handbook, Sec. 4.2.4,” tech. rep., 2003.

[24\_old]

“Beamline Requirements Documentation,” tech. rep. LBNE Doc 4335

http://

lbne2-docdb.fnal.gov:8080/cgi-bin/ShowDocument?docid=4335

.

[25\_old]

N.Mokhov et al.

, “LBNE Target Station, Decay Volume and Hadron Absorber: Radia-

tion and Thermal Analysis Modeling,” tech. rep., 2011. LBNE Doc 2241.

[26\_old]

“National instruments.”

http://www.ni.com/

.

[27\_old]

“ANSYS Engineering Simulation.”

http://www.ansys.com

.

[28\_old]

E.Rivera, “NuMI Hadron Absorber Finite Element Analysis for NOvA Beam Energy’,”

tech. rep., 2010.

[29\_old]

“Fermilab Radiological Control Manual, and references therein,” tech. rep. /url-

<http://esh.fnal.gov/xms/FRCM>.

[30\_old]

D. Reitzner and K. Vaziri, “LBNE Groundwater Shielding Requirements for Shallow and

Deep Beam,” tech. rep., Fermilab. LBNE Doc 4052

http://lbne2-docdb.fnal.gov:

8080/0040/004052/004/ShieldingRequirementsGroundwater5.docx.

[31\_new]

N.V. Mokhov, MARS Energy Deposition and Radiological Calculations, LBNE-doc-10198,   
<http://lbne2-docdb.fnal.gov:8080/cgi-bin/ShowDocument?docid=10198> .

[32\_old]

“LBL Consultant Report on NuMI Tritium in Beampipe Shielding,” tech. rep. LBNE

Doc 2533.

[33\_old]

N. Mokhov, “Target Chase MARS Calculations.” LBNE Doc 3216

http://

lbne2-docdb.fnal.gov:8080/0032/003216/001/LBNE-doc-3216-mokhov-120810.

pdf

.

[34\_old]

D. Reitzner, “LBNE Dose at Site Boundary.” LBNE Doc 4128

http://lbne2-docdb.

fnal.gov:8080/0041/004128/002/skyshine\_on\_axis\_MI10\_revisited.pptx

.

[35\_old]

P. Hurh, “LBNE Remote Handling Component List and Shielding Calculations,” 2012.

[36\_old]

V.Graves, A.Carroll, and T.Burgess, “Conceptual Design of the Remote Handling Facili-

ties for the Long-Baseline Neutrino Experiment,” tech. rep., 2010. ORNL/TM-2010/125,

LBNE DocDB 2483.

[37\_old]

N. Mokhov, “Recent MARS15 Developments,” tech. rep., 2010. Fermilab-Conf-10-518-

APC.

[38\_old]

V.Garkusha et al.

, “700 kW target design study - IHEP 2009 Accord report,” tech. rep.,

2010. LBNE Doc 2423.

[NM1\_new]

N.V. Mokhov, C. James, The MARS Code System User’s Guide, <http://www-ap.fnal.gov/MARS/> ; N.V. Mokhov et al., Proc. Hadronic Shower Simulation Workshop, Fermilab, AIP Conf. Proc. **896** (2007) 50-60; N.V. Mokhov et al.,Progress in Nuclear Science and Technology **4,** 496 (2014).

[IgorTr] I. Tropin, “Primary Beamline – Accidental prompt dose levels induced by total beam loss in up-hill and apex region”, LBNE doc 10040.

[BLundberg-5024] B. Lundberg, “Decay Pipe Size: Optimization Exercise”, LBNE doc 5024

[Air-Releases-Review] D. Cossairt, K. Gollwitzer, N. Grossman, E. Huedem, “Final Report – Long Baseline Neutrino Facility Air-Releases Design Review”, LBNE doc 10927.