

IceCube Upgrade Glossary & Abbreviation Dictionary

AC: Actual Cost

ACWP: Actual Cost of Work Performed

AMANDA: Antarctic Muon And Neutrino Detector Array, IceCube precursor

ASC: Antarctic Support Contractor

BAC: Budget at Completion

BCWP: Budgeted Cost of Work Performed

BCWS: Budgeted Cost of Work Scheduled, Planned Value

CCB: Change Control Board

CHC: Christchurch, New Zealand

CMD: Configuration Management Document

CONUS: Continental United States

CPT: Cables Power & Timing Systems

CV: Cost Variance

DAQ: Data Acquisition

DCC: Drill Control Center

D-EGG: Dual PMT, egg shaped optical module (Chiba University, Japan)

DFM: Design for Manufacturability

DNF: Do Not Freeze

DOM: Digital Optical Module, Gen1 optical module, or used generically for all modules

DSN: Design Status Notes

EAC: Estimate at Completion

EHWD: Enhanced Hot Water Drill

ERD: Engineering Requirements Document

EV: Earned Value

EVOP: Evolutionary Operation

EVMS: Earned Value Management System

FAT: Final Acceptance Testing

FDR: Final Design Review

FieldHub: Surface of the ice readout electronics for in-ice optical module support (DESY, Germany)

Firn: The top layers of partially compressed snow in the Antarctic, about 100m thick at the South Pole.

FMEA: Failure Mode and Effects Analysis

Gen1: The 86 in-ice-string plus IceTop ICNO at the South Pole.

GPR: Ground Penetrating Radar

ICL: IceCube Laboratory at the South Pole

ICM: Ice Communications Module (DESY, Germany)

ICNO: IceCube Neutrino Observatory

IDD: Interface Design Document

IMP: Integrated Master Plan

IOFG: IceCube International Oversight and Finance Group

IV&T: Inspection, Verification, and Testing

KPI: Key Performance Indicator

MB: Mainboard, the digital electronics “smarts” of the in-ice optical modules

MCM: McMurdo Station, Antarctica

mDOM: Multiple-PMT (24 PMTs) Optical Module for the Upgrade (Muenster University, Germany)

MDS: Mobile Drilling Structure

MHP: Main Heating Plant

MOU: Memorandum of Understanding

MSU: Michigan State University

NPX: South Pole Station, Antarctica

NSF: National Science Foundation

NTS: Northern Test System, high fidelity “slide” of the Upgrade detector

OM: Optical Module, in-ice sensor

PAP: Physics Advisory Panel

PDM: Power Distribution Module

PDR: Preliminary Design Review

PEP: Project Execution Plan

PM: Project Manager

PMT: Photomultiplier Tube

PO: Project Office (WIPAC, UW)

POCAM: Precision Optical Calibration Module (Technical University of Munich, Germany)

PSL: Physical Sciences Laboratory at the University of Wisconsin—Madison

PSU: The Pennsylvania State University

PTH: Port Huaneme, California, Antarctic shipping point for the CONUS

PV: Planned Value

QA: Quality Assurance

QC: Quality Control

SEW: Seasonal Equipment Workshop

SOW: Statement of Work

SJB: Surface Junction Box, interconnect between downhole cable and surface cables

SV: Schedule Variance

TB: Technical Board of the IceCube Upgrade Project, also the Technical Baseline which is maintained and defined by the Technical Board

TOS: Tower Operations Site/Structure

UA: University of Alabama

UMD: University of Maryland

Upgrade: The IceCube Upgrade, Gen2 Phase 1

USAP: US Antarctic Program

UW: University of Wisconsin—Madison

VAC: Variance at Completion

WBS: Work Breakdown Structure

WG: (Science) Working Group

WIPAC: Wisconsin IceCube Particle Astrophysics Center, University of Wisconsin—Madison

YTD: Year To Date