



### 13. GLOSSARY OF ABBREVIATIONS AND ACRONYMS

ACGIH	American Conference of Governmental Industrial Hygienists
AECL	Addiscombe Environmental Consultants Ltd
AFS	Anti-Fouling System (refers to IMO Convention on the control of harmful anti-fouling systems on ships)
AG	Associated Gas – gas produced as by-product of oil production
AGO	Automotive Gas Oil
AIDS	Acquired Immune Deficiency Syndrome
ALARP	As Low As Reasonably Practicable
AOC	Accidentally Oil-Contaminated (drain system on the LNG site)
AQG	Air Quality Guideline
BCC	Bonny Chiefs Council
BCC	Bonny Channel Company (contractor of NPA for deepening and maintenance of the Bonny Approach Channel)
BCOT	Bonny Crude Oil Terminal (SPDC site on Bonny Island)
BCG	Bacilli Calmette-Guerin vaccine
BECC	Bonny Environment Consultants' Committee (a local NGO on Bonny Island)
BFU	Bonny Fishermen Union
BGH	Bonny General Hospital
BGL	Bonny Gentlemen's League
BGT	Bonny Gas Transport Ltd (a subsidiary of NLNG)
BIFC	Bonny Indigenous Fishermen Committee
BKDC	Bonny Kingdom Development Committee (a local NGO of Bonny Island)
BKEB	Bonny Kingdom Employment Bureau
BLGC	Bonny Local Government Council
BMP	Bonny Master Plan (draft report issued in 2003)
BOD	Biological Oxygen Demand – a measure of the oxygen used by microorganisms to decompose waste water
BOD	Basis-of-Design (specific phase in project development)
BR	Baseline Report
BRT	Bonny River Terminal (facility of MPN on Bonny Island)
BUC	Bonny Utilities Company
BWPM	Bonny Women Patriotic Movement
BYF	Bonny Youth Federation
CAPEX	CAPital Expenditure (counterpart is OPEX)
CBD	Convention on Biological Diversity
CC	Combined Cycle (power generation)
CCS	Carrying Capacity Study
CD	Chart Datum
CFU	Colony Forming Unit (standard indication of bacterial activity)
CITES	Convention on International Trade in Endangered Species of wild fauna and flora
COC	Continuously Oil Contaminated (drain system on the NLNG site)
COD	Chemical Oxygen Demand
DEP	Design and Engineering Practice (practical standards used in Shell)
DHS	Demographic and Health Survey
DLN	Dry Low-NOx (burners in gas turbines)
DO	Dissolved Oxygen
DPO	Divisional Police Officer
DPR	Department of Petroleum Resources (Ministry of Petroleum Resources in Nigeria)
DTP	Diphtheria and Tetanus toxoids and whole-cell Pertussis vaccine, pediatric formulation
EA	Environmental Assessment
EAU	Environmental Advisory Unit (former contractor in UK involved in NLNG EIA work)
EC	European Community
ECA	Export Credit Agency (involved in the financing of the Plus Project)



EC50	Effect Concentration (concentration of a compound where 50% of the test species exhibit a response)
EERA	Escape Evacuation & Rescue Analysis
EGASPIN	Environmental Guidelines and Standards for the Petroleum Industry in Nigeria (issued by DPR in 2002)
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
ENL	Elf Nigeria Limited
EOF	Entirely Oil-Free (drain system on the LNG site)
EPC	Engineering, Procurement and Construction (specific phase in project development)
ESHA	Environmental, Social and Health (impact) Assessment
ESHMP	Environmental, Social and Health Management Plan
EU	European Union
FDC	Finima Development Committee (a local NGO on Bonny Island)
FEA	Fire and Explosion Analysis
FEED	Front-End Engineering and Development (specific phase in project development)
FEPA	(Nigerian) Federal Environmental Protection Agency (now FMEEnv)
FGN	Federal Government of Nigeria
FHC	Finima Health Centre
FID	Final Investment Decision
FIREPRAN	FIRE PRotection ANalysis
FMEEnv	(Nigerian) Federal Ministry of Environment (formerly FEPA, currently Federal Ministry of Environment, Housing and Urban Development)
FP50	Floating Production, Storage and Offloading unit
FTE	Full-Time Equivalent
FWA	Finima Women Association
FYA	Finima Youth Association
GHG	GreenHouse Gas (most important are CO <sub>2</sub> , methane and NO <sub>2</sub> )
GO	Gas Oil
GP	Good Practice (World Bank document/terminology)
GRE	Glassfibre REinforced (tank roofs)
GSM	Global System for Mobile communication
GTG	Gas Turbine Generator
GTS	Gas Transmission System
GTSRR	Gas Transmission System Revised Route (applicable to GTS/1)
HAZID	HAZard IDentification
HAZOP	HAZard and OPerability study
HEMP	Hazards and Effects Management Process (heart of the HSE-MS)
HHI	Hyundi Heavy Industries (construction company on BCOT site)
HIV	Human Immunodeficiency Virus (causes Aids)
HFO	Heavy Fuel Oil
HRSG	Heat Recovery Steam Generator
HSE	Health, Safety and Environment
HSE-MS	Health, Safety and Environmental Management System
HTF	Heat Transfer Fluid
IA	Impact Assessment
IAM	Impact Assessment Matrix
IFC	International Finance Corporation (private sector arm of the World Bank Group)
IMCO	Intergovernmental Maritime Consultative Organisation
IMO	International Maritime Organisation
IPCC	Intergovernmental Panel on Climate Change (established by the WMO and UNEP)
IPF	Instrumented Protective Function
IPP	Integrated Power Plant
ISB/OSB	Inside Battery Limits/Outside Battery Limits
ISO	International Organisation for Standardisation
IUCN	International Union for Conservation of Nature
JIC	Joint Industry Companies (working relationship between NLNG, Mobil and SPDC)
JV	Joint Venture



LC50	Lethal Concentration (concentration of a compound that killed 50% of the test species within a standard period of time)
LDC	Less Developed Country
LGA	Local Government Area
LNG	Liquefied Natural Gas
LNGC	Liquefied Natural Gas Carrier
LPG	Liquefied Petroleum Gas
LTI	Lost Time Injury (a parameter to express safety performance)
MAC	Maximum Acceptable Concentration
MARPOL	MARine POLLution (the International Convention for the Prevention of Pollution from Ships)
MDEA	MethylDiEthanolAmine (chemical compound used in gas treating)
MEA	Millennium Ecosystem Assessment (published in 2005)
MFCSN	Mangrove Forest Conservation Society of Nigeria (a regional NGO)
MOF	Materials Offloading Facility (NLNG jetty used during construction)
MOU	Memorandum Of Understanding (agreement between Bonny Kingdom and JIC)
MPN	Mobil Producing Nigeria (a subsidiary of ExxonMobil)
MSDS	Material Safety Data Sheet
NAG	Non (oil-)Associated Gas
NAOC	Nigerian Agip Oil Company (owned by NNPC, Agip Oil and Philips Petroleum)
NCP	Nigerian Content Plan
NCPs	Nigerian Content Plan for SevenPlus
NDHS	National Demographic and Health Survey
NDR	Niger Delta Region
NDWC	Niger Delta Wetlands Centre (a regional NGO)
NEPA	National Electric Power Authority (in Nigeria)
NGL	Natural Gas Liquids
NGO	Non-Governmental Organisation
NIOMR	Nigerian Institute for Oceanography and Marine Research (based in Lagos)
NITEL	Nigeria Telecommunications Ltd
NLNG	Nigeria Liquefied Natural Gas Ltd
NNPC	Nigerian National Petroleum Corporation (established on April 1, 1977)
NOEC	No-Observed Effect Concentration
NPA	Nigerian Ports Authority (division of the Federal Ministry of Transport)
NPI	National Immunization Program
NPV	Net Present Value
NTU	Nephelometric Turbidity Unit
OBE	OutBoard Engine
OC	Open (simple) Cycle (power generation)
OD	Operational Directive (World Bank document/terminology)
OP	Operational Procedure (World Bank document/terminology)
OPEX	OPERational EXPenditure (counterpart is CAPEX)
OPV	Oral Polio Vaccine
OSRP	Oil Spill Response Plan
PD	Production Division (organisational entity of NLNG on Bonny Island)
PEM	Physical Effects Modelling
PHCN	Power Holding Company of Nigeria
PM10	Particulate Matter (tiny particles of 10 µm or less in the air)
PNEC	Predicted No-Effect Concentration
PPAH	Pollution Prevention and Abatement Handbook (a World Bank document)
PS	Project Specification (specific phase in project development)
PS	Performance Standard (adopted by the World Bank)
QRA	Quantitative Risk Assessment
RA	Residential Area (housing area for NLNG's operations staff)
RFSU	Ready For Start-Up (specific phase in project development)
RSMEV	Rivers State Ministry of Environment (based in Port Harcourt)
RSMOH	Rivers State Ministry of Health (based in Port Harcourt)
ROW	Right-Of-Way (dedicated pipeline route)



SD	Sustainable Development
SDCC	Sustainable Development Coordination Committee (organisation within NLNG)
SGBV	Shell Gas B.V.
SGS	Société Générale de Surveillance (former contractor in UK involved in NLNG EIA work)
SGSI	Shell Global Solutions International B.V. (based in The Hague, The Netherlands)
SIMP	Stakeholder Identification and Management Plan
SPA	Sales and Purchase Agreement
SPDC	Shell Petroleum Development Company
STASCO	Shell international Trading and Shipping Company Ltd
STD	Sexually Transmitted Diseases
STG	Steam Turbine Generator
TA	Technical Advisor (Shell Global Solutions Int. is TA to NLNG for project development)
TBT	TriButylTin (an organotin used as anti-fouling system on ships)
TCN	Third-Country Nationals
TDS	Total Dissolved Solids
TFR	Total Fertility Rate (a demographic characteristic)
TOR	Terms of Reference
TPH	Total Petroleum Hydrocarbons
TSHD	Trailing Suction Hopper Dredger
TSKJ	Technip, Snamprogetti, Kellogg, Brown & Root and JGC Corporation (joint venture that has built trains 1-6 for NLNG on Bonny Island)
TSS	Total Suspended Solids
UK	United Kingdom
UNCLOS	United Nations Convention on the Law Of the Sea
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
USA	United States of America
VOC	Volatile Organic Compounds (methane is excluded)
VRU	Vapour Recovery Unit
VTMS	Vessel Traffic Management System
WB	World Bank
WBG	World Bank Group
WHO	World Health Organisation (directing and coordinating authority for health within the United Nations)
WHRU	Waste Heat Recovery Unit
WMO	World Meteorological Organisation (a specialised agency of the United Nations)