



CITYRINGEN

Branch off to Sydhavnen

SHG-CB 1.1.A

Abbreviations and Definitions

Common Basis

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Revision summary

Version	Date	Scope of revision	Change description
3.0	2017-12-15	Contract version	

1 Introduction

The purpose of this document is to settle General Abbreviations and Definitions for all works on Cityringen - Branch off to Sydhavnen.

The list is by no means exhaustive and the intention is to offer a reference to look up abbreviations and definitions generally used.

Abbreviations for names of stations and shafts are placed in a subsection 'Stations and shafts abbreviations' within the 'Abbreviation' paragraph.

High level definitions defined in the SHG-AB/SB are not included in this document.

Milestone and Process stage abbreviations and definitions are not included in this document. Refer to the document SHG-CB 4.2 for these.

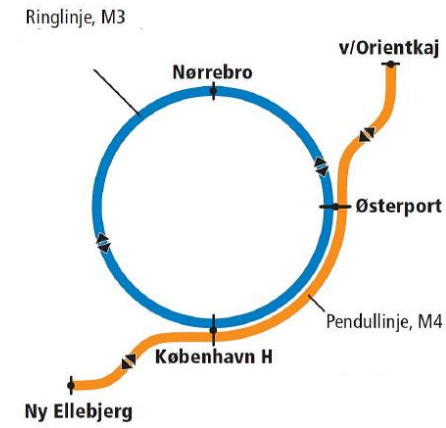
Abbreviations and definitions, which are specific for a contract, are included as a sub-section "Terminology, Abbreviations and Definitions" in the individual technical, contractual or commercial sections of the Tender Documents.

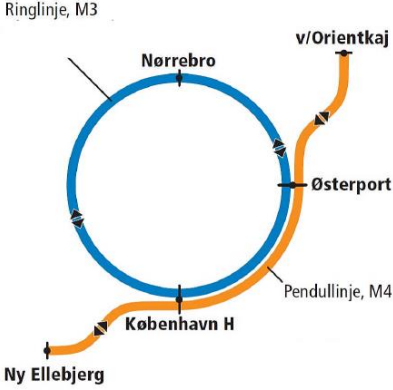
2 Abbreviations

ABT93	Almindelige Betingelser for Totalentreprise (General Conditions of Contract for Turnkey Contracts)
AB/SB	Almindelige og Særlige Betingelser (Conditions of Contract)
AC	Alternating Current
ACS	Access Control System
ADM	Administration
ALARP	As Low As Reasonably Practicable
A&R	Area & Rights, dealing with inspections and expropriation of land
ASTM	American Society for Testing and Materials
ASTS	Ansaldo STS (TSC)
AT	Arbejdstilsynet (Working Environment Authority)
ATC	Automatic Train Control
ATM	Automatic Teller Machine
ATO	Automatic Train Operation
ATP	Automatic Train Protection
ATS	Automatic Train Supervision
AW	Architectural Works
BAT	Best Available Technology
B&H	By og Havn
BCS	Building condition survey
BDK	Banedanmark
BOStrab	German Federal Regulations covering metro operations
BRA	Building risk assessment
BRMP	Building risk management plan
BS	British Standards, including Codes of Practice.
BSS	Building structural surveys
CBTC	Communication Based Train Control
CC	Control Centre
SHG-CB	Cityringen - Branch off to Sydhavnen - Common Basis
CCTV	Closed-circuit television
CD	Concept Design / Conceptual Design
CFD	Computerrized Fluid Dynamics
CMC	Control and Maintenance Centre

CPM	Critical Path Method
CPU	Central Processing Unit
CR	Cityringen
CRSH	Cityringen - Branch off to Sydhavnen
CRSH1	CRSH Contract #1, Underground Civil Works. CRSH1 is also used as an abbreviation for CRSH1 Contractor.
CRSH4	CRSH Contract #4, Transportation System Works. CRSH4 is also used as an abbreviation for CRSH4 Contractor.
CRSH5	CRSH Contract #5, Transfer Works below KØR tracks. CRSH5 is also used as an abbreviation for CRSH5 Contractor.
CRSH6	CRSH Contract #6, Concourse Hall at Nel. CRSH6 is also used as an abbreviation for CRSH6 Contractor.
CRSH-NEL-RB1	CRSH Contract for Interim Platform Ringbane Station at Nel.
CRSH-NEL-RB2	CRSH Contract for Temporary Ringbane Station at Nel.
CRSH-NEL-RB3	CRSH Contract for Permanent Ringbane Station at Nel.
CS	Contract Schedule
CSJV	COWI-SYSTRA Joint Venture (Design Consultant on Cityringen - Branch off to Sydhavnen)
CSM	Common Safety Method
CTS	Contract Time Schedule
CW	Civil Works
CWC	Civil Works Contractor on Cityringen, CMT
D&B	Design and Build
DBI	Dansk Brandteknisk Institut (Danish Fire Technical Institute)
DC	Direct Current
DCP	Document Control Plan
DD	Detailed Design
DIN	Deutsche Industrinorm (German Industrial Standard)
DMS	Document Management System
DONG	DONG Energy (Energy Company)
DS	Danish Standard
DS/EN	European standards adopted and approved as Danish standards
DSB	Danske Statsbaner (Danish State Railways)

DVR90	Dansk Vertikal Reference 1990
DWS	Design Working Schedule
EAP	Environmental Action Plan
ECC	Emergency Control Centre
ECP	Emergency Call Point
EDH	Emergency Door Handle
EDP	Electronic Data Processing
EIA	Environmental Impact Assessment (VVM in Danish)
EMC	Electromagnetic compatibility
EMS	Environmental Management System
EN	European Norm
EPCH	Emergency Power Cut off Handle
ERP	Enterprise Resource Planning
ESH	Emergency Stop Handle
ETSI	European Telecommunication Standard Institute
EU	European Union
FT	Form of Tender
GIS	Geographical information system
GSM	Global System for Mobile communications
GUI	Graphic User Interface
HAZOPS	Hazard and Operability Studies
HDR	Hydrogeological Design Report
HOFOR	<i>Hovedstadsområdets Forsyningsselskab</i> (Greater Copenhagen Utility Services)
HR	Human Resource
HRMS	Human Resource Management System
HV	High Voltage
HVAC	Heating, Ventilation & Air Conditioning.
ICDD	Interface Control Definition Document
IDS	Intrusion Detection system
IEEE	Institute of Electrical and Electronic Engineers
IES	Information Exchange Schedule
IP	Internet Protocol
ISA	Independent Safety Assessor
ISO	International Standard Organisation

ITP	Inspection and Test Plan
ITT	Instruction to Tenderers
IWS	Initial Working Schedule
KE	Københavns Energi (Copenhagen Energy Company)
KEN	Kinematic Envelope
KK	Copenhagen Municipality (<i>Københavns Kommune</i>)
KØR	Copenhagen Ringsted Railway line (<i>København Ringsted jernbane</i>)
LAN	Local Area Network
LCC	Life Cycle Cost
LCP	Local Control Panel
LRU	Line Replaceable Unit: A unit designed to be removed upon failure from a larger entity (product or item) in the operational environment
LV	Low Voltage
M&E	Mechanical and Electrical
M1	Existing Metro line Vanløse – Vestamager
M2	Existing Metro line Vanløse - Lufthavnen
M3	<p>M3: Cityringen, Circle operation (blue line).</p> 
M4	M4: Cityringen, Pendulum Operation from Nordhavnen (Orientkaj station) to Sydhavnen (Ny Ellebjerg station) (orange line).

	 <p>Ringlinje, M3</p> <p>Nørrebro</p> <p>v/Orientkaj</p> <p>Østerport</p> <p>Pendulinje, M4</p> <p>København H</p> <p>Ny Ellebjerg</p>
MCC	Main Control Centre
MCW	Multidisciplinary Civil Works consultant
MDB	Monitoring Database
METRA	A metro alarm system connecting direct to the fire brigade.
MMI	Man Machine Interface
MMS	Maintenance Management System
MRO	Metro Ready for Operation
MS	Metroselskabet I/S
MSD	Monitoring and survey department - department with responsibility for the geotechnical and hydro geological investigations, monitoring and for the management of the risk to buildings and other structures.
MSS	Material submittal sheets
MST	Method Statement
MSYS	Geotechnical, hydrogeological, underground works, building and environmental monitoring system
MTS	Multidisciplinary Transportation System consultant
MW	Material and Workmanship Specification
NA	Not Applicable
NFPA	National Fire Protection Association
OATV	Optical and acoustic televiewer
OC	Operator Certificate
OD	Område med drikkevandsinteresser (Areas with drinking water interests)
O&M	Operation & Maintenance
OHS	Occupational Health and Safety
OHSMS	Occupational Health and Safety Management System

OHSP	Occupational Health and Safety Plan
OIC	Object Identification Code
OIS	Object Identification System
OLE	Object Linking and Embedding
OPC	Object linking and embedding Process Control
OPM	Opmåling (Survey contract)
OSD	Overall System Design
OTE	Over Track Exhaust
OTS	Overall Time Schedule
PABX	Private Automatic Branch eXchange
PAT	Plan for the advancement of the tunnel
PB	Project Basis
PCS	Passenger Counting System
PD	Preliminary Design
PI	Project Information
PICOW	Person in charge of works (=Arbejdsleder)
PICOP	Person in charge of Possession (=Sikkerheds Ansvarlig)
PID	Passenger Information Display
PIP	Project Implementation Plan
PLC	Programmable Logic Circuit
PMS	Project Management System
PS	Power Supply
PSDS	Platform Screen Doors System
PSIS	Passenger Security and Information System
PSTN	Public Switched Telephone Network
PV	Passenger Vehicles
PW	Permanent Way
QA	Quality Assurance
QC	Quality Control
QEM	Quality and Environmental Management
QHSE	Quality, Health, Safety and Environment
QM	Quality Manual
QMS	Quality Management System
QP	Quality Plan
QR	Quality Records

QS	Quality System
RARJV	Rambøll Arup Joint Venture (consultant on the Branch off to Nordhavnen)
RAM	Reliability, Availability, Maintainability
RAMS	Reliability, Availability, Maintainability, Safety
RCS	Radio Communication System
RI	Railway Infrastructure
RS	Rolling Stock
RT	Rescue Trolley
SA	Service Availability (also used for subsystem acceptance milestone)
SB	Særlige Betingelser (Special Conditions)
SCADA	Supervisory Control And Data Acquisition
SG	Structure Gauge
SI	Système International d'Unités (The international system of units)
SIL	Safety Integrity Level
SINE	SikkerhedsNETtet (Danish security radio network)
SKAFOR	Dansk Forening for Skadesforsikring (The Danish Association of Non-life Underwriters)
SPS	Stairwell Pressurization System
SQL	Standard query language
SRA	Safety Regulation Authority (Trafik-, Bygge- og Boligstyrelsen)
SSA	Station and Shaft Areas
SSAC	Station and Shaft Areas Contractor
STES	Station Train Emergency Stop
SV	Service Vehicles
SW	Scope of Works
S34	System 34
TBM	Tunnel Boring Machine
TD	Tender Design
TCP	Transmission Control Protocol
TETRA	Terrestrial Trunked Radio
TIDS	Tunnel Intrusion Detection System
TIS	Ticketing System
TOR	Top of Rail

TP	Traction Power
TRS	Transmission System (also used for the trial run start milestone)
TS	Transportation System
TSC	Transportations System Contractor (Ansaldo STS) TSC is also used as an abbreviation for the ASTSs Contract on Cityringen.
TSI	Technical Specification of Interoperability
TÜV	TÜV Rheinland Sicherheit und Umweltschutz (Independent Safety Assessor)
TVF	Tunnel Ventilation Fan
TVS	Tunnel Ventilation System
UMTS	Universal Mobile Telephone System
VO	Variation Order
VSP	Vertical Seismic Profile
VVP	Verification & Validation Plan
WAN	Wide Area Network
WBS	Work Breakdown Structure
WEA	Working Environment Authority (Arbejdstilsynet AT)
WiFi	Wireless Fidelity (wireless interface of mobile computing devices)
WS	Working Schedule
ZOI	Zone of influence is the area affected by the works in terms of displacement.

3 Station and Shafts abbreviations

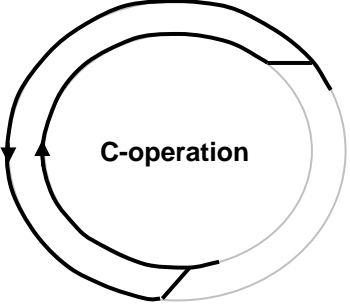
Abbreviation	Station Name
Amh	Aksel Møllers Have
Buv	Otto Bussesvej (Staff Platform at CMC area)
Ehp	Enghave Plads
Ebr	At/Enghave Brygge
Fb	Frederiksberg
Fba	Frederiksberg Allé
Fit	At/Fisketorvet
Gls	Gammel Strand
Kgn	Kongens Nytorv
Kh	København H
Kk	Østerport
Mmk	Marmorkirken
Mop	At/Mozarts Plads
Nup	Nuuds Plads
Nø	Nørrebro
Nør	Nørrebros Runddel
Php	Poul Henningsens Plads
Rhp	Rådhuspladsen
Skp	Skjolds Plads
Slu	At/Sluseholmen
Tri	Trianglen
Vhr	Vibenshus Runddel
Ork	Orientkaj
Nht	Nordhavn
Nel	Ny Ellebjerg station

Abbreviation	Shaft and Cut & Cover Name
Gåb	Gåsebæk
Nøp	Nørrebroparken

Sbv	Sønder Boulevard
Stk	Stubkaj (ramp)
Tgv	Tømmergraven
Øsø	Øster Søgade
Krp	Krauseparken
Hah	Havneholmen
Øvk	H C Ørstedsværket
Abbreviation	Pump Sump Name
Teh	Teglholmegade
Tjæ	Tjæregade

4 Definitions

24/7	24 hours a day, 7 days a week
ASTS	Ansaldo STS, the TS contractor on Cityringen responsible for all TS supply on Cityringen as well as operation and maintenance of the entire Cityringen System
Asset management	Registration and access to overview of all assets with all relevant asset data
ATP work zone (or just work zone)	Part of the line where ATP controlled movement is not permitted. The work zone may be bigger than the corresponding work area. Work zone limits always correspond to the 3rd rail power sectioning.
Bifurcation	The term covers three locations: The branching from Cityringen towards CMC and Sydhavnen at Sbv. Track 1 (upper track) connects to Track 12 and Track 2 (lower track) connects to Track 11. The branching from CMC branch to Sydhavnen at Hah. Track 11 (lower track) connects to Track 41 and track 12 (upper track) connects to track 42. The branching from Cityringen towards Nordhavnen at Øsø. Track 1 connects to track 61 and Track 2 connects to Track 62.
Cable Way	Space dedicated for the passage of cables
CMT	Copenhagen Metro Team, the CW contractor on Cityringen responsible for all civil works on Cityringen

Contractor	The term Contractor refers to any of the Contractors for Cityringen Branch off to Sydhavnen. If the term XX Contractor is used this refers solely to the XX Contractor and not to the remaining Contractors.
C-Operation	A pinched loop operation between any 2 crossovers on mainline using any of the tracks for turn back. M4 also qualifies as C-operation. 
Door opening time	Time from wheels physically stop moving until all doors (vehicle doors and platform doors) are physically fully open.
Door open time	Time from all doors (vehicle and platform) are physically fully open until first door (vehicle or platform) physically starts closing.
Door closing time	Time from first door (vehicle or platform) physically starts closing until wheels physically start moving.
Driver:	Person responsible for the operation of a train when it is in ATP or Bypass mode.
Dwell time	Time from wheels physically stop moving on station A to wheels physically start moving on station A. Dwell time is the sum of door opening time, door open time and door closing time.
Employer	The Employer is Metroselskabet (MS).
Headway	The time interval between the passing of the front ends of successive vehicles moving along the same track in the same direction
Main cable support system	Common cable support for three or more cables of the same voltage range following the same route.

Maintenance Manual	This manual provides a system overview and a detailed description on maintenance and adjustment of the system. Maintenance activities are in general categorised as preventive (regular or condition based) and corrective (repair and reconditioning).
OC Contractor	Contractors for the other contracts than CRSH1, CRSH2, CRSH3, CRSH4, TSC, CWC. (Small contracts which the Employer separately will enter into station areas contract, traffic relocations etc.
O&M provider	The part of the TSC's organisation which is responsible for Operation and Maintenance after Hand Over Milestone
Operation Manual	This manual provides a system overview and a detailed description on how the system shall be operated in normal operation and various fallback and emergency scenarios and on the interfaces to other systems. The manual does not describe operation of other systems to which the system is integrated.
Project Basis	The Project Basis contains the design requirements on which the project shall be based to produce an acceptable design.
Project Information	The Project Information contains additional information collected by the Employer to assist the tenderer to prepare the Tender Design.
Round trip time	Time from wheels physically start moving on station x to wheels physically start moving on station x after having performed 1 M3 loop or 1 M4 loop. Round trip time is the sum of all run times plus all dwell times for 1 M3 or M4 loop.
Run time	Trip time from one station to the next.
Service Availability	Service Availability is a measure of how well the O&M provider delivers the agreed train capacity in an even flow. It is based on actual departure data measured against the agreed public headway schedule
Service contract	The contract entered into by the TSC (ASTS) for the purpose of maintaining parts of Cityringen including the branch off to Sydhavnen. The contracts on CRSH include service contracts on selected systems and components. These will be handed over to the TSC via the Employer.
Service Provider	The party to a service contract who delivers service to Cityringen including the Branch off to Sydhavnen is called The Service Provider
Technical Specification	The Technical Specifications set out the minimum quality requirements for material and workmanship.

The Works	The design, supply, construction, inspection, testing, commissioning, setting to work and maintenance until handover to the Employer of the whole of the works comprising this Contract
TILOS	A proprietary project management and planning software
Train Dispatcher	Member of O&M staff responsible for the operational aspects of the ATC and PSDS systems, covering revenue and CMC aspects
Training manual	Overall description of training activities related to a specific topic.
Trip time	Time from wheels physically start moving on station A to wheels physically stop moving on station B.