

**Department of National Defence
Canadian Armed Forces Chemical Agent Sensors
Area Detection and Identification System**

Appendix AE of Annex A

**References, Acronyms and Glossary (RAG)
for the
Area Detection and Identification System
(ADIS)**

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NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

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References	
Document Number	Title/Description
CF/DND Specifications and Standards	
A-EN-007-000/FP-001	DND Environmental Assessment Manual
A-LM-184-001/JS-001	Special Instructions Repair and Overhaul Contractors
A-LM-505-001/AG-001	Guidance Manual ILS
A-LM-505-354/JS-001	Assignment of Military Nomenclature for Electronic, Aeronautical, Photographic and Naval Equipment
A-SJ-100-001/AS-000	Security Orders for the Department of National Defence and the Canadian Forces - Volume 1 - General
CFITES A-P9-050 Series	Manuals of Individual Training and Education
C-01-000-100/AG-004	Production and Acquisition of Engineering Data
C-01-000-102/AG-000	National Defence Index of Documentation
C-01-100-100/AG-005	Acceptance of Commercial and Foreign Government Publications as Adopted Publications
C-01-100-100/AG-006	Writing Format and Production of Technical Publications
C-02-007-000/AG-001	Controlled Technology and Transfer (CTAT) Manual
C-02-008-001/TS-000	General Safety Lithium Batteries Handling, Storage Preservation and Disposal Instructions
C-55-040-001/TS-001	Radio Frequency Safety Program
C-66-020-001/NC-000	Inspection Procedures for Electro-Mechanical Equipments
CFTO C-55-040-001/TS-001	Radio Frequency Safety Program ("DAOD 3026-1, Radio Frequency Radiation Safety" refers)
D-01-000-200/SF-001	Military Nomenclature - Assignment and Procedures
D-01-002-007/SG-001	Requirements for the preparation of Configuration Management Plans
D-01-002-007/SG-006	Criteria for the selection of Configuration Items
D-01-100-200/SF-000	Preparation of Equipment Data Summaries
D-01-100-202/SF-000	Preparation of Equipment Descriptions
D-01-100-203/SF-000	Preparation of Operating Instructions
D-01-100-204/SF-000	Preparation of Preventive Maintenance
D-01-100-205/SF-000	Preparation of Corrective Maintenance Instructions
D-01-100-207/SF-000	Preparation of Parts Identification Lists
D-01-100-214/SF-000	Preparation of Provisioning Documentation
D-01-100-215/SF-000	Preparation of Material Change Notice
D-01-300-100/SG-000	Specification Preparation
D-01-400-001/SG-000	Engineering Drawing Practices
D-01-400-002/SF-000	Drawings, Engineering and Associated Lists
D-02-002-001/SG-001	Identification Marking of Canadian Military Property
D-02-006-008/SG-001	Design Change, Deviation & Waiver Procedure
D-LM-008-001/SF-001	CAF Packaging Specification
D-LM-008-002/SF-001	Specification for Marking for Storage and Shipment
D-LM-008-011/SF-001	Preparation and Use of Packaging Requirements Codes

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References	
Document Number	Title/Description
D-LM-008-036/SF-000	DND Minimum Requirements for manufacturer's Standard Pack
DRDC-RDDC-2015-R186 "2012	Canadian Forces Anthropometric Survey (CFAS)
CAN/CSA-ISO 9001:2008	Quality Management Systems - Requirements
CAN/CSA-ISO 10005	Quality Management Systems – Guidelines for Quality Plans
CAN/CSA-Z234.1	Canadian Metric Practices Guide
CID/09/15A	Compromising Emanations Laboratory Test Requirements, Electromagnetics
DoD Specifications and Standards	
MIL-STD-461 (rev. F and G are acceptable)	Requirements for the Control of Electromagnetic Interference Emissions and Susceptibility
MIL-STD-464C	Electromagnetic Environmental Effects Requirements for Systems.
MIL-STD-810 (rev. F and G are acceptable)	Environmental Engineering Considerations and Laboratory Tests.
MIL-STD-973	Configuration Management standard.
MIL-STD-1275E	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles.
MIL-STD-1472G	Design Criteria Standard Human Engineering.
MIL-STD-1474D	Design Criteria Standard. Noise Limits
MIL-STD-1521	Technical Reviews and Audits for Systems, Equipments and Computer Software.
MIL-DTL-38999	Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect, (Bayonet, Threaded, and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Contacts.
MIL-DTL-53072C	Chemical Agent Resistant Coating.
MIL-HDBK-310	Global Climatic Data for Developing Military Products.
MIL-HDBK-46855	Human Engineering Guidelines for military Systems, Equipment and Facilities.
MIL-STD-973, 17 April 1992	Configuration Management, the National Consensus Standard for Configuration Management ANSI/EIA 649-A (Oct 2004).
MIL-HDBK-61	Configuration Management Guidance.
MIL-HDBK-217B	Reliability Prediction of Military Equipment.
MIL-HDBK-472	Maintainability Prediction.
MIL-HDBK-502A	Product Support Analysis.
MIL-HDBK-759C	Human Engineering Guidelines.
NATO Specifications and Standards	
AECTP 200	Allied Environmental Conditions and Test Publication - Environmental Conditions.
AECTP 230	Allied Environmental Conditions and Test Publication - Climatic Conditions.

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References	
Document Number	Title/Description
AECTP 400	Allied Environmental Conditions and Test Publication - Mechanical Environmental Tests.
ACMP-4	Allied Configuration Management Publication (ACMP), NATO Requirements for Configuration Status Accounting.
AEP-7 (Edition 5) April 2012	Chemical, Biological, Radiological and Nuclear (CBRN) Contamination Survivability Factors in the Design, Testing and Acceptance of Military Equipment.
ATP 45	Warning and reporting and Hazard Prediction of Chemical, Biological, Radiological and Nuclear Incidents.
SDIP 27 Level A	Compromising Emanations Laboratory Test Standard.
STANAG 4370 (Edition 3)	Subject: Environmental Testing.
Commercial Specifications and Standards	
ANSI/EIA-649-B-1998	Configuration Management Standard
ASME Y14.24	Types and Applications of Engineering Drawings (dated 2004)
ASME Y14.34	Associated Lists (dated 2002)
ASME Y14.100	Engineering Drawing Practices (dated 2004)
CEPA 1999	Canadian Environmental Protection Act (CEPA)
CAN/CSA-ISO 9001:2008	Quality Management Systems - Requirements
CAN/CSA-ISO 10005	Quality Management Systems – Guidelines for Quality Plans
CAN/CSA-Z234.1	Canadian Metric Practices Guide
ISO 710	Graphical Symbols for Use on Detailed Maps, Plans and Geological Cross-sections -- Part 1: General Rules of Representation
ISO 2813	Paints and varnishes -- Determination of Specular Gloss of Non-metallic Paint Films at 20 Degrees, 60 Degrees and 85 Degrees
ISO 9660	Information Processing - Volume and File Structure of CDROM for Information Interchange
ISO 10007	Quality Management-Guidelines for Configuration Management
ISO 14001:2004	Environmental management systems
OHSAS 18001	Occupational Health and Safety Management
Certificates and Forms	
DND 590	Certificate of Validation
DND 591	Certificate of Compliance
DND 626	Task Authorization
DND 642	Certificate of Reproducible Copy
DND 675	Request for Waiver or Deviation
DND 2515	Certificate of Translation Accuracy Check
DND 2589	Certificate of Decontamination
PWGSC 7139	Format for the Progress Report.

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Acronyms	
Acronym	Definition
°C	Degrees Celsius
A	Analysis (as a verification method)
ADIS	Area Detection and Identification System
AECTP	Allied Environmental Conditions and Test Publication. (Standard)
AI	Action Item
AIR	Action Item Register
ARET	Accelerated Reduction/Elimination of Toxics
AZ/EL	Azimuth/Elevation
AZ/EL P	Azimuth/Elevation Platform
BEC	Bid Evaluated Cost
BIT	Built-in Test
BOC	Brought On Charge
C	Certification (as a verification method)
C4ISR	Computer, Communication, Command, Control, Intelligence, Surveillance & Reconnaissance
CA	Contracting Authority/Contract Award
CAF	Canadian Armed Forces
CAGE	Commercial and Government Entity
CAS	Chemical Abstract Services (for chemical substance information)
CCD	Course Control Documentation
Chem Project	Chemical Agent Sensor Project
CBRN	Chemical, Biological, Radiological and Nuclear
CD-R	Compact Disk Recordable
CDR	Critical Design Review
CDRL	Contract Data Requirements List
CE	Conducted Emissions
CEPA	Canadian Environmental Protection Act
CAF	Canadian Armed Forces
CFFCA	Canadian Forces Fire Fighting & CBRN Academy
CFITES	Canadian Forces Individual Training and Education System
CFM	Contractor Furnished Material
CFSD	Canadian Forces Supply Depot
CFSS	Canadian Forces Supply System
CFTO	Canadian Forces Technical Order
CI	Configuration Item
CIS	Contract Issue Spares
CJIRU	Canadian Joint Incident Response Unit
CLIN	Contract Line Item Number
CM	Configuration Management
CMP	Configuration Management Plan

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Acronyms	
Acronym	Definition
CNSC	Canadian Nuclear Safety Commission
CoC	Certificate of Conformance
COTS	Commercial Off The Shelf
CP	Command Post
CPM	Configuration Program Manager
CRPA	Contractor Repair Parts Account
CS	Conducted Susceptibility
CSA	Canadian Standards Association
CSAR	Configuration Status Account Report
CSC	Common Sensor Controller
CSCI	Computer Software Configuration Item
CSEC	Communications Security Establishment Canada
CSTD	Canadian Society for Training and Development
CWA	Chemical Warfare Agent
D	Demonstration (as a verification method)
DCSEM	Director Combat Support Equipment Management
DCBRND	Director of Chemical Biological Radiological Nuclear Defence
DCG	Document Control Group
DH	Detector Head
DID	Data Item Description
DGLEPM	Director General Land Equipment Program Management
DM	Data Manager
DMC	Demilitarization Code
DND	Department Of National Defence
DoD	Department Of Defense (U.S.)
DRDC	Defence Research and Development Canada
DRMIS	Defence Resource Management Information System
DSC	Defence Supply Chain
DSCO	Director Supply Chain Operation
DVD±R	Digital Video Disk Recordable
D&I	Detection and Identification
E3	Electromagnetic Environmental Effects
EA	Environmental Assessment
EBS	Equipment Breakdown Structure
ECP	Engineering Change Proposal
EEA	Equipment Environmental Assessment
EEE	Electromagnetic Environmental Effects
EHS	Environment, Health and Safety
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
EMS	Environmental Management System

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Acronyms	
Acronym	Definition
EMSEC	Emissions Security
EMT	Equipment Management Team
EO	Enabling Objectives
FATP	First Article Test Procedure
FATR	First Article Test Report
FCA	Functional Configuration Audit
FOC	Full Operational Capability
FOR	Field Of Regard
FOV	Field of View
FSR	Field Service Representative
FTIR	Fourier Transform Infrared
FTP	File Transfer Protocol
FQR	Formal Qualification Review
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GFOS	Government Furnished Overhaul Spares
GHz	Gigahertz
GOC	Government Of Canada
GOM	Government Owned Materiel
GPS	Global Positioning System
GSM	Government Supplied Material
GUI	Graphical User Interface
HAZMAT	Hazardous Material
H&S	Health and Safety
HFE	Human Factor Engineering
Hz	Hertz
I	Inspection
IAW	In accordance with
ICT	Initial Cadre Training
ID	Identification number
IDLH	Immediately Dangerous to Life or Health Concentrations
ILS	Integrated Logistics Support
ILSM	Integrated Logistics Support Manager
ILSP	Integrated Logistics Support Plan
IMI	Interactive Multimedia Instruction
IOC	Initial Operating Capability
IPE	Individual Protective Equipment
IR	Infrared
ISD	Instructional Systems Design
ISS	In-service Support
JETDAS	Joint Electronic Type Designation Automated System

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Acronyms	
Acronym	Definition
JTAR	Job Task Analysis Report
Kg	Kilogram
KHz	Kilohertz
KO	Kick-off
LBS	Logistical Breakdown Structure
LCMM	Life Cycle Material Manager
LIR	LCMM Investigation Report
LMT	Library Management Tool
LRU	Line Replaceable Unit
LT	Laboratory Test
Maint	Maintenance
MAC	Months After Contract Award
Man	Manual
MCN	Material Change Notice
MedCM	Medical Countermeasures
MGRS	Military Grid Reference System
MHz	Megahertz
MIL-STD	Military Standard
MOTS	Military Off The Shelf
MPR	Monthly Progress Report
MPS	Master Project Schedule
MRC	Maximum Repair Cost
MS	Microsoft
MSDS	Material Safety Data Sheet
MSI	Maintenance Significant Item
MTBF	Mean Time between Failures
MTTR	Mean Time to Repair
N	Narrative
NATO	North Atlantic Treaty Organization
NCR	non-conformance reports
NDID	National Defence Index of Documentation
NDQAR	National Defence Quality Assurance Representative
NIOSH	National Institute for Occupational Safety and Health
NOR	Notice of Revision
NPRI	National Pollutant Release Inventory
NSCM	National Supply Code for Manufacturers (<i>obsolete term</i>)
NSN	NATO Stock Number
OEM	Original Equipment Manufacturer
OHSMS	Occupational Health and Safety Management System
Op	Operator
OS	Operating System

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Acronyms	
Acronym	Definition
PBL	Product Baseline
PCA	Physical Configuration Audit
PCB	Polychlorinated Biphenyls
PHST	Packaging, Handling, Storage and Transportation
PM	Project Manager
PMO	Project Management Office
PMP	Project Management Plan
PO	Performance Objectives
POL	Petroleum, Oils and Lubricants
PP	Preliminary Proof
PPB	Provisioning Parts Breakdown
PRM	Project Review Meeting
PSPC	Public Services and Procurement Canada
QA	Quality Assurance
QAP	Quality Assurance Plan
QAR	Quality Assurance Representative
QC	Quality Control
QCI	Quality Control Inspection
QMC	Quality Management System
QS	Qualification Standards
QTP	Qualification Test Procedure
QTR	Qualification Test Report
R&O	Repair And Overhaul
RAG	References, Acronyms and Glossary
RAM	Reliability and Maintainability
RAT	Recurring Article Testing
RBD	Reliability/Maintainability Block Diagram
RE	Radiated Emissions
RFD	Request for Deviation
RFP	Request for Proposal
RFW	Request for Waiver
RH	Relative Humidity
RMA	Repair Material Account
RRM	Requirements Review Meeting
RS	Radiated Susceptibility
RSA	Repair Shop Account
RSPL	Recommended Spare Parts List
RVM	Requirements Verification Matrix
SAASM	Selective Availability Anti-spoofing Module
SAT	System Acceptance Test
SC	Stock Code

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Acronym	Definition
SCN	Specification Change Notice
SCORM	Shareable Content Object Reference Model
SDR	System Design Review
SDS	Safety Data Sheet
SEM	Systems Engineering Manager
SEMP	Systems Engineering Management Plan
SI&DS	Sensor Integration and Decision Support
SIR	Significant Incident Report
SITS	Special Investigations and Technical Studies
SME	Subject Matter Expert
SNAPS	Selection Notice and Priority Summary
SNR	Serial Number Register
SOW	Statement Of Work
SPTD	Supplementary Provisioning Technical Documentation
SRR	System Requirements Review
SRU	Shop Replaceable Unit
SST	Steady State Training
SSR	System Requirements Review
STANAG	NATO Standardization Agreement
STTE	Special Tools and Test Equipment
SVDD	Software Version Description Document
SysRS	System Requirements Specification
T	Test
TA	Technical Authority
TAT	Turn-Around-Time
TBD	To be Determined
TDGR	Transportation of Dangerous Goods Regulations
TDWG	Training Development Working Group
TEMP	Test and Evaluation Master Plan
TIC	Toxic Industrial Chemicals
TIES	Technical Investigation and Engineering Study
TIM	Toxic Industrial Materials
TMP	Training Management Plan
TNA	Training Needs Analysis
TP	Training Plan
TR	Test Report
TRM	Technical Review Meeting
TRR	Test Readiness Review
TV	Television
UCR	Unsatisfactory Condition Report
UII	Unique Identification of Items

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Acronyms	
Acronym	Definition
UL	Underwriters' Laboratory
UWG	Users Working Group
VEC	Valued Ecosystem Components
VTM	Verification Traceability Matrix
W/m ²	Watts per Square Metre
WBS	Work Breakdown Structure
WD	Working Days
WHMIS	Workplace Hazardous Materials Information System

Glossary	
Term	Definition
1. Active	Refers to the sensor's ability to perform its detection, identification and monitoring functions using emissions engineered to allow or improve those functions (e.g. lasers).
2. Alarm	Refers to when the ADIS generates audio and visual signals to the operator that a CWA or TIC has been detected.
3. Alert	Refers to when the ADIS generates audio and visual signals to the operator that a malfunction has occurred with one of the ADIS subsystems.
4. Analysis (A)	Analysis is an element of verification that uses established technical or mathematical models or simulations, algorithms, charts, graphs, circuit diagrams, engineering drawings or other scientific principles and procedures to provide evidence that stated requirements are met. It may also include, as determined by the TA, a reasonable plan to meet the requirements within the project limitations.
5. Autonomous Operation	The ability to operate at specified performance parameters without user involvement once the set-up is completed.
6. Availability	The availability of a system is defined as the ratio of the time the system is serviceable to the total maintenance cycle time. $A = \text{MTBF} / (\text{MTBF} + \text{MTTR})$. For example: If the system has an MTBF of 1000 hours, and an MTTR of one hour, then the availability is: $A = 1000 / 1001 = 0.999$, or 99.9%
7. Built In Test (BIT)	A BIT is a function integrated into a system that allows the system to test itself.
8. Central Processor and Controller	The Central Processor and Controller performs the functions of command and control of the scanning mechanism and Detector Head (DH), processing and analysis of the raw and spectral data, stores all of the spectral libraries and distributes power to the scanning mechanism and DH.

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Term	Definition
9. Certificate of Conformance (CoC)	A document certified by a competent authority with a formal statement that it certifies or warrants that the proposed system, supplied goods or services fully comply with the required specifications.
10. Chemicals	Chemicals include chemical warfare agents (CWA), Toxic industrial chemicals (TICs) and combinations of them.
11. Chemical Threat	Any one of the chemical substances from the CWA and TIC in Tables A-1 and B-1.
12. Chemical Warfare Agent (CWA)	Chemical Warfare Agent (CWA) is a chemical substance whose toxic properties are used to kill, injure or incapacitate human beings. These agents may be in liquid, gas or solid form.
13. Cloud	A cloud is defined as a volume in the atmosphere containing gas, vapour or aerosols.
14. Configuration Item (CI)	A product or an aggregation of products that accomplishes an end-use function that requires separate identification. An item is designated as a CI for purposes of additional configuration management focus due to its complexity, logistic support requirements, acquisition strategy, or because it is intended to undergo configuration status accounting or verification and audit separately from other items. Configuration items are end items or major components of end items, which typically have performance requirements allocated to them and documented in their own specification.”
15. Console	Refers to the physical hardware which forms the control interface with which the Operator interacts. This may be a laptop, tablet, or similar device. The console can be connected via both wired and radio communications for local and remote control of system functions and interface with other connected systems.
16. Consumables	Any substance consumed by the system or any item being spent by the system during its operation, including operator maintenance items but excluding first line maintenance items. Rechargeable batteries (with associated charger) are not considered as a consumable.
17. Contamination	The deposit, absorption or adsorption of chemical agents on or by structures, areas, personnel or objects.
18. Contract Authority (CA)	The Contracting Authority (CA) is part of PSPC and is the only authorized person to enter into a contract on behalf of Canada for the purpose of the ADIS contract.
19. Controlled Products	Controlled products, in the context of EHS, are defined as those that contain the following substances: a. Regulated under the Canadian Environmental Protection Act (CEPA); b. Schedule 1, List of Toxic Substances under the CEPA; c. Targeted chemicals subject to the National Pollutant Release Inventory; d. Targeted by the Chemicals Management Plan - List of Challenge

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	Substances; and e. Targeted under the Accelerated Reduction/Elimination of Toxic Substances Program.
20. CSEC	Communication Security Establishment Canada.
21. Decontamination	To make (an object or area) safe for unprotected personnel by removing, neutralizing, or destroying any harmful substance, as radioactive material or poisonous gas.
22. Demonstration (D)	Demonstration is an element of verification that involves the actual operation of an item to provide evidence that the required functions were accomplished under specific scenarios. The items may be instrumented and performance monitored.
23. Detector Head	Refers to the unit containing the Chemicals D&I sensor hardware.
24. Emissions Security (EMSEC)	The protection resulting from all measures taken to deny unauthorized persons information of value that might be derived from communications systems and cryptographic equipment intercepts and the interception and analysis of compromising emanations from cryptographic equipment, information systems, and telecommunications systems.
25. Event	Defined as the detection and alarm for a chemical threat.
26. External Battery Pack	The battery pack is the primary source providing nominal power to the ADIS P.
27. False Negative	Refers to a scenario where the system fails to indicate that a Chemical Threat is present, either by failing to detect its presence or by incorrectly identifying a Chemical Cloud that has been detected, or any other reason.
28. False Positive	Refers to the scenario where the system indicates that a chemical threat is present when there actually isn't one.
29. Fault	An abnormal condition that may cause a reduction in, or loss of, the capability of a functional unit to perform a required function.
30. Failure	The inability of an item or part to perform within previously specified limits.
31. Field of Regard (FOR)	The FOR is the defined solid sector to be scanned.
32. Field of View (FOV)	The extent of the observable scene that is seen by the sensor at any given time.
33. Fine Solid Aerosol	A fine solid aerosol is defined as an aerosol having a particle size of approximately 1-3 microns.
34. Fourier Transform	Mathematical method used to analyse and interpret the frequency of detected vapours to define the spectral components.

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Term	Definition
35. Fully operational performance	“Fully operational” shall mean that the ADIS system is functioning in accordance with the specification detailed in this document. The fully operational ADIS system shall provide the minimum accuracies specified herein.
36. Hazard	Any item or agent (biological, chemical, physical) which has the potential to cause harm to humans, animals, or the environment, either by itself or through interaction with other factors. <i>Institute of Hazardous Materials Management (IHMM) Definition.</i>
37. High Definition (HD)	A digital High Definition (HD) video image is one with a minimum of 720 horizontal lines.
38. Hot-Swappable	Refers to a quality of the system which allows one to replace batteries without having to put the system through Start-up again.
39. Ideal conditions for ADIS Set-up Time	Having no obstructions and inclines; and excludes travel time, i.e. the time required to move to multiple locations when the ADIS are to be placed at significant distances from each other.
40. Individual Protective Equipment (IPE)	CBRN dress state 4 with mask on. Includes CBRN coveralls, boots, gloves and CBRN mask.
41. Inspection (I)	Inspection is an element of verification that is generally non-destructive and typically includes the use of sight, hearing, smell, touch, simple physical manipulation; and mechanical and electrical gauging and measurement. Inspection may include verification of bidder documents as submitted in response to the Bid Evaluation.
42. IR Radiation	A type of invisible radiation in the frequency spectrum beyond red light, and less than radio wave frequencies, used in remote temperature sensing.
43. Lab Test (LT)	A series of tests performed as part of the Bid Evaluation process as detailed in the Volume 1 Part 4 Attachment 1 Annex 1 – DRDC Bid Eval Lab Test Plan.
44. Lexicon	The lexicon covers the special vocabulary used in the equipment documentation, especially for translated words and phrases.
45. Library	A pre-defined list of substances (Chemical Threats and others) with the necessary data allowing for their analysis, detection, identification and reporting as per this specification. Also allow implementation of the concept where it is possible to select different libraries for different needs.
46. Narrative (N)	Narrative is a thorough technical description, including any associated risk, indicating how a bidder intends to implement a feature or solution that at time of bid, is either non-existent or needs modification in order to be fully compliant with a requirement stated in the system specification. Identified solutions can be further refined after contract award though the various system phases. Technical narratives will be evaluated by DND for acceptance or rejection at bid evaluation time.

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Term	Definition
	Narratives will only be accepted in those cases indicated in the system specification.
47. Networked ADIS	Refers to the complete kit encompassing of two (2) and up to six (6) number of detector units, a Remote Operator Interface located between 1m and at least 1km, all required communication hardware and software, and all required power supply hardware.
48. Operator	The ADIS operator oversee the running of ADIS, ensuring that the it running properly, there are four types of operator, Super Administrator, Administrator, User, and Viewer.
49. Passive	Refers to the sensor's ability to perform its detection, identification and monitoring functions without any emissions engineered to allow or improve those functions.
50. Preliminary Proof (PP)	Preliminary Proof is an element of verification used to demonstrate that a given system feature is already existing in the off the shelf equipment at the moment of bidding, and is not an absent feature that will be developed or implemented in the future. It is permissible to tailor or modify an existing feature in order to be fully compliant with the system specification after contract award; however, this effort will need to be described by the contractor in the bid submission. Full compliance might be confirmed during system qualification. Preliminary Proof may include video (submitted on USB, CD, or DVD), screen shots, still images, and simplified test reports, or other methods as approved by the TA.
51. Procurement Authority	The Procurement Authority is part of DND and is responsible for the procurement processes, is in direct liaison with the Contracting Authority and manages the financial aspects of the project.
52. Ranging/Triangulation	Defined as calculating the minimum distance of the cloud front to the sensor.
53. Reticle	A grid or pattern used to establish scale or position.
54. Scan or scanning	The term scan / scanning is the process of examining the field of regard (e.g. continuously, by discrete sectors, etc.) with the purpose of detecting and identifying CWAs and TICs.
55. Set-up	Refers to the act of complete assembly of the hardware for the ADIS (e.g. mounting DH on tripod, plugging in cables, etc.), without actually initiating the electronics and other systems.
56. Shelf Life Item	A system component that may be sensitive to storage time and subject to a process for maintaining and controlling shelf life materials and age control of elastomer items.
57. Simultaneously	The set-up time for the ADIS is defined as the time required for converting all of the ADIS detector equipment from Transit Configuration to operational configuration and initiating power-up.

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Term	Definition
58. Start-up	The start-up time for the ADIS is defined as the time required for the ADIS sensor to reach full operational readiness following power-up, including software initialization and source/detector warm-up.
59. Technical Authority (TA)	The Technical Authority (TA) is responsible for the technical aspect of the project, providing information, guidance, advice and control over the Statement of Work and the System Requirement Specification. The TA also reviews, comments and accepts the contractor deliverables and the various baselines. The TA can delegate some responsibilities to its representatives.
60. TEMPEST	TEMPEST is a National Security Agency specification and a NATO certificate referring to spying on information systems through leaking emanations, including unintentional radio or electrical signals, sounds, and vibrations. TEMPEST covers both methods to spy upon others and how to shield equipment against such spying.
61. Test (T)	Test is an element of verification in which scientific principles and procedures are applied to determine the properties or functional capabilities of items. It involves proof of compliance using instrumentation and facilities to verify compliance, through data capture and review as well as a test report.
62. Test Report (TR)	Document that records system data obtained from an experiment of evaluation in an organized manner, describes the environmental or operating conditions, and shows the comparison of test results with test objectives.
63. Toxic Industrial Chemical (TIC)	Toxic Industrial Chemicals (TICs) are industrial chemicals that are manufactured, stored, transported, and used throughout the world. Toxic industrial chemicals can be in the gas, liquid, or solid state.
64. Track	Defined as maintaining a lock on the changing 2D geographical coordinates of the boundaries of a chemical cloud as it propagates through the area of detection.
65. Transit configuration	The transit configuration consists of the ADIS components in their transportation cases.
66. Training Plan	Training Plans define the Contractor activities required to plan, prepare, document and deliver Operator and Maintenance Initial Cadre Training (ICT) and instruction and define the content for each course.