For nearly 20 years OPEC has been supplying reliable and practical CBRN solutions to the Defence and First Response communities. It is a history we are proud of.

– Peter Murphy | Managing Director | OPEC Systems
LAND 2110 Ph 1B CBRND

As an active and experienced supplier of selected subsystems for LAND 2110, OPEC Systems (OPEC) is capable of delivering wide-ranging support to organisations preparing submissions for LAND 2110. We have outlined our capabilities in relation to LAND 2110 in the following capability statement.

OPEC has been providing CBRN equipment and services to Government and Industry for over 20 years. OPEC is a 100% Australian-owned company which has been operating since 1992. It has offices, workshops and warehouses in Sydney, Brisbane, Melbourne, Newcastle, Townsville and Dampier. The Brisbane facility has a fully equipped calibration and service lab which operates under strict engineering and system controls.

OPEC has extensive CBRN experience in the Australian market. We currently sit on the Defence Environment and Heritage Panel (DEHP) in the three areas of UXO Related Materials Assessment and Management; Contamination and Remediation Works Contractor; and Toxic Remnants of War Contractor for Defence (and other Commonwealth Agencies’) sites throughout Australia. We are the only company in these streams in Australia that both supplies CBRN equipment and provides the technical and operational capability to undertake complex CBRN remediation projects.

OPEC supplied on-site engineering, operational and logistical services on the recent TRW remediation projects at Maribyrnong, Columboola and Marangaroo. Additionally, we have provided decontamination, field hospital and field shelter solutions to Defence and First Responder Agencies throughout Australia. We designed, supplied and maintained the Incident Response Regiment’s (now SOERs’) decontamination capabilities under ‘Project Bloodhound’ and supplied Defence with the Remploy in service CBRN suits (MkIV and MkIVA) for many years.

OPEC Systems looks forward to supporting and strengthening your company’s LAND 2110 submission.

Our Capabilities

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The Bruker Daltronics µRAID is a highly robust, easy to use, IMS Chemical Agent Detector that can identify Chemical Warfare Agents and Toxic Industrial Chemicals. The ultrareliable instrument has unmatched sensitivity and class winning interference rejection that produces accurate results.

The µRAID is the evolution of Bruker’s proven RAID-M 100. Taking on board customer feedback and the increasing weight burden on the soldier, Bruker have reduced the overall size and weight providing the same confidence level in a compact, lightweight module with minimal consumables and low life cycle costs.

Features

Size: 65 x 130 x 215mm including standard battery container
Weight: 1.3kg including standard battery container
Power Requirement: Use of commercial AA cells including rechargeable AA-batteries in the standard battery pack. Use of C-Cells for extended durability and military battery packs in the extended battery pack
Temperature Range: -32°C to +53°C operational, -33°C to +71°C storage
Detectable Substances: CWA: GA, GB, GD, GF, VX, VXR, HD, HN, L, AC, TIC’s: Cl2, SO2, Chlorinated Substances, ClX, Phosgene (CG), TDI, CY. The list of TIC’s is not exhaustive, further substances can be programmed into the libraries upon request
Detection Range: ppm to ppb level depending on substance

Sub System: Area Detection – Chemical and Radiological
Model: Bruker RAID-XP

Designed to meet the needs of Defence in combating existing and emerging threats, the innovative RAID-XP combines Chemical and Radiological detection into one system. The RAID-XP is capable of operating as a standalone unit or mounted in vehicles or on board vessels.

The RAID-XP has been developed for military use, which includes the harsh naval environment as well as counter terrorism and civil Defence applications. The state-of-the-art RAID-XP is a highly flexible instrument, both in terms of detection capabilities (N+C) and lightweight and portable design. It is based on the principle of ion mobility spectrometry.

Features

Weight: 6.7kg (without battery)
Size: 245 x 165 x 280mm
Power Supply: External power supply, accumulator/battery Low voltage DC power (10-30V DC nominal)
Mains Power Supply: 230V 50Hz, (110V 60Hz) AC 0.5 - max. 4A
Battery: Lithium MnO2 battery, non-rechargeable [Weight: 3.3kg]
Lithium Ion battery, rechargeable [Weight: 1.4kg]
Substances Detectable: CWA’s: GA, GB, GD, GF, VX, VXR, HD, HN, L, AC
Test Substances: DPM (GSI), MSAL (HSI); Toxic Industrial Chemicals: Cl2, Chloride (ClX), Cyanide (Cy), SO2, Toluidisocyanate (TDI)
Detection Range: Low ppb up to several ppm (substance specific)
Temperature Range: -20°C to +50°C
Detection, Identification and Monitoring

Sub System: **Area Detection - Chemical**
Model: **Bruker RAPIDplus**

The RAPIDplus is a highly reliable and robust second generation stand-off detector that can automatically detect, identify and monitor all known Chemical Warfare Agents (CWA’s) and important Toxic Industrial Chemicals (TIC’s) at long distances. The one piece self-contained system provides real time detection and can be used on any platform or infrastructure.

The instruments utilise Bruker’s proven RockSolid™ flex-pivot interferometer and can be operated whilst static or on the move with no degradation in performance. The software RAPIDplus Control 2.0 VOM provides the user with enhanced visual surveillance and analytical displays overlaid on video and an increased detection capability. The RAPIDplus instrument has a real-time colour wide dynamic camera that supplements the intuitive operator displayed software. It is pre-loaded with an extended substance library.

### Features

**Basic Specification**
- **Type:** FTIR, patented RockSolid interferometer
- **Size:** 500 x 331 x 386mm
- **Weight:** 28.7kg
- **Temperature Range:** -51 to 71°C (storage); -20 to 49°C (operation)
- **Humidity Range:** 0 to 95%

**Vehicle Mounting (optional)**
- **Dimensions:** 790 x 285 x 445mm
- **Weight:** 13.1kg

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Sub System: **Area Detection - Radiological**
Model: **Bruker Radiation Sentry**

This multi-role detection system detects, identifies and reports radiological threats. The ultra-flexible Radiation Sentry can be fixed to a permanent site, mounted in a vehicle or put in a backpack. Radiation Sentry automatically communicates through a wireless link with its PDA and integrated Command and Control Software.

The Bruker Radiation Backpack Sentry detects radioactive materials from gamma emissions and offers a complete turnkey solution to gamma radiation detection and isotope identification. The radioactive material may be contamination on surfaces or a source carried by a person or in a vehicle. The source may be stationary or moving, shielded or unshielded. The Radiation Backpack Sentry uses the gamma spectrum to identify the isotopes present and determine whether the radioactive material is a threat according to the organisational ConOps.

The Backpack Sentry employs a 76 x 76mm thallium doped sodium iodide scintillation crystal NaI(Tl) with photomultiplier tube for isotope identification. This allows the operator to make decisions on non-threat sources such as medical and naturally occurring isotopes.

### Features

**Detector:** 76 x 76mm NaI(Tl)
- **Gamma Energy Resolution:** ≤ 8% at 662keV
- **Response Range:** 30keV to 3MeV
- **Dose Rate Upper Limit:** 5mR/hr
- **Calibration:** Automatic continuous calibration
- **Isotope ID Time:** Nominally 2 seconds, designed to ANSI N42.53
- **Battery Operation:** Over 8 hours with rechargeable batteries (universal chargers included)
- **Size:** Approximately 510 x 380 x 240mm
- **Weight:** Under 6.4kg including handheld
- **Shock and Vibration:** Detector designed to ANSI N42.53, handhelds specified to 4ft (1.22m) drop to hard surface
- **Operating Temperature:** -20°C to +60°C
- **Humidity:** ≤ 95% non-condensing
The Bruker SVG3 Radiation Survey Meter is a high precision, handheld system that uses a combination of Geiger-Mueller counting tubes and semiconductor detectors. As standard, the system includes a lightweight external probe that detects alpha-, beta-, gamma- and x-ray radiation simultaneously. For users who need an extended range for beta-/gamma-measurements, a dedicated probe is available as an option, and this extends the upper detection limit by a factor of five. Neutron radiation is detectable with an optional probe. When either probe is connected, the SVG3 recognises that particular probe and sets the measurement parameters accordingly.

The utility of the SVG3 is further enhanced by the inclusion of an integrated GPS module linked to an internal data logger. Hardened to exacting Military Standards (MIL-STD), this latest generation radiation detector also includes a capped USB port for a convenient download of the combined measurement/GPS data, so that these can be subjected to further analysis with the supplied software.

**Features**

**Basic Device (without external probe)**
- Stand-alone device detects γ and x-ray ionising radiation.
- Weight: 1.4kg
- Dose Rate: 0.1μGy/h to 1Gy/h
- Pulse Rate: 0 to 9.999cps
- Dose: 1μGy to 9.99Gy
- Energy Range: 50keV to 3MeV

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The pTDi is a self-contained identification platform for automated and specific detection of biological toxins associated with biological warfare agents (BWA).

The detection principle is based on an enzyme-linked immunosorbent assay (ELISA) procedure. Antibodies immobilised on gold electrodes attached to a toxin chipstick facilitate the specific capture of corresponding toxins from an applied liquid sample. Detection of captured toxins is realised by measuring the electrical current of an enzymatic redox reaction. The current correlates to the amount of target molecules bound to the specific antibodies. The whole identification procedure is realised in less than 25 minutes.

**Features**

- Size: 350 x 305 x 352mm
- Weight: 14.2kg (including reagent and sample holder)
- Operating range: Operating temperature ranges from 10 to 35°C
  - Humidity ranges up to 80% (relative humidity)
- Power requirement: 24V DC (+/- 15%), 110 to 240V AC (external power supply)
- Power consumption: 30W
- Detectable agents: Botulinum neurotoxin A, Botulinum neurotoxin B, Botulinum neurotoxin E, Staphylococcal enterotoxin B
Warning and Reporting

Sub System: Warning and Reporting
Model: CoBRA Software

CoBRA Incident Management and Decision Support System software is currently used across the US Department of Defense and civilian First Responders. The software, which has been used to manage CBRN incidents at the most recent Olympic and World Cup Soccer events, provides a wide range of decision-making tools, databases, interactive maps, checklists, incident reporting capabilities and standard response protocols.

CoBRA systems have been deployed to US Military installation Security, Fire, and Operations Departments CONUS and OCONUS. CoBRA has been deployed to all US Air National Guard (ANG) Emergency Management personnel, and has been integrated into the Joint Installation Protection Command and Control system.

CoBRA software is registered with the NATO Communications and Information Agency (NCIA) Approved Fielded Products List (AFPL) and operates on NATO secure networks. During Sensitive Site Exploitation, CoBRA provides a large, easily searchable CBRNE reference library, interactive tools to document the site, create reports, and establish stand-off distance and decontamination procedures. No network connectivity required.

CoBRA enhances the soldier’s ability for presumptive identification of Toxic Industrial Materials, including Chemical, Biological, Radiological and Nuclear materials, to identify the appropriate precautions and avoidance measures.

Physical Protection

Sub System: Light Protective Ensemble
Model: Haven Remploy Lightweight Protective Ensemble

The Remploy LPE has been designed and tested with the user requirements of excellent mobility and low thermal burden in mind. This suit provides a perfect balance between protection, flexibility and operator endurance. The design can be adapted to meet any requirements including different mask applications and integration with other equipment load configurations. It can be completely tailored to specific designs required by Defence. Textile outer layer cotton/polyester, water and oil repellent, flame-retardant if required. Active charcoal filter layer.

Features
- Available in any colour/pattern
- Double seals around mask
- Designed to exceed AEP38 requirements
- Available in seven standard sizes
- Largest size weighs no more than 2kg
- Can be laundered up to 10 times without loss of effectiveness
- 10 year shelf life
- Compatible with all major CBRN respirators.

In 2014 Haven Industries Ltd purchased Remploy Ltd. The MkIV suit from Remploy has been the in service Australian CBRN suit for over 15 years. OPEC, Remploy’s previous Australian Agent, has secured the IP for the full range of Remploy CBRN suits from Haven and has entered into a production agreement to offer the fully accredited and thoroughly tested original Remploy Phoenix lightweight and Kestrel medium weight suits. These suits were the latest CBRN designs produced by Remploy prior to their closure on 2014.
Physical Protection

Sub System:  Medium Protective Ensemble
Model:       Haven Remploy Medium Protective Ensemble

The Remploy MPE suit, based on the hugely popular Cougar/Kestrel CBRN suits, has been designed with maximum user protection and comfort in mind, incorporating key features to make wearing a CBRN suit no more of a burden than a standard uniform. The design can be adapted to meet any requirements from different mask applications and integration with other equipment considerations through to specific features required by the end user. The MPE provides a higher level of protection than the LPE with added robustness, wearer safety and longer break through times. Textile outer layer cotton/polyester, water and oil repellent, flameretardant if required. Active charcoal filter layer.

Features
- Available in any colour/pattern
- Double seals around mask
- Designed to exceed AEP38 requirements
- Available in seven standard sizes
- Largest size weighs no more than 3.6kg
- Can be laundered up to 10 times without loss of effectiveness
- 10 year shelf life
- Compatible with all major CBRN respirators.

In 2014 Haven Industries Ltd purchased Remploy Ltd. The MkIV suit from Remploy has been the in service Australian CBRN suit for over 15 years. OPEC, Remploy’s previous Australian Agent, has secured the IP for the full range of Remploy CBRN suits from Haven and has entered into a production agreement to offer the fully accredited and thoroughly tested original Remploy Phoenix lightweight and Kestrel medium weight suits. These suits were the latest CBRN designs produced by Remploy prior to their closure on 2014.

Sub System:  Heavy Protective Ensemble
Model:       Dupont Tychem TK Class 2 Ensemble

Tychem® TK is a high performance chemical barrier fabric developed for protection against corrosive gases, liquids and solid chemicals.

Features
- Constructed from high strength, high tear-resistant, proprietary, non-halogenated barrier films separated by 100% non-woven polyester staple fabric
- Ideally suited for Military CBRN, industrial, HazMat, and domestic preparedness applications
- Puncture and tear-resistant
- Taped or double-taped seams
- Tested against 260 challenge chemicals with no observed breakthrough after exposures of up to 8 hours
- Excellent permeation data from stringent ASTM testing substantiates the uncompromised protection available with Tychem® TK
- The lime-yellow colour of Tychem® TK is highly visible in both bright and dim light, offering greater safety in emergency situations
- Breathing apparatus and mask worn separately under the suit
- Available in totally encapsulated vapour protective Level A suits and certified to the NFPA 1991 chemical/biological standard
- Butyl® gloves
- 40mm PVC faceshield
- Attached sock boots with boot flaps
- Internal 3cm waist belt with belt loops, elastic wrists, two exhaust valves and a double storm flap closure with Velcro® over a gastight zipper
- Suit is available with front or rear entry and with an expanded back for an SCBA or a flat back better suited to an air-line
Physical Protection

Sub System: Decontamination Protective Ensemble
Model: Dupont Tychem F Suit

Available either as a hooded coverall or two piece smock and trouser set. The suit can be worn over CBRN or conventional operational clothing, offering effective protection in a chemical liquid/vapour decontamination environment.

Tychem® F products are made of a proprietary barrier film laminated to a Tyvek® substrate. Strong, durable, and lightweight, it is a preferred choice for military, police and emergency services personnel. Tychem® F fabrics are tested by a third party laboratory to assess their chemical permeation resistance. DuPont has data for over 190 chemicals for Tychem® F in SafeSPEC™ 2.0 so that the user can select an appropriate garment.

Features
- Provides protection against over 180 chemical challenges for at least 30 minutes
- Used by military personnel and first responders for chemical warfare situations

Sub System: Respiratory and Ocular Protection – Individual Respite
Model: CBRN C420 PAPR

The C420 PAPR from IRT is a CBRN NIOSH approved individual respite system. It is a military hardened version of the original C420 PAPR, the most popular military PAPR in use around the world. The ergonomic twin filter design sits comfortably against the small of the user’s back or can be affixed to the user’s arm for seated operations such as helo or vehicular operator roles.

The system uses DIN440 thread protocols making it compatible with all popular masks and filters available on the market.

The new CBRN C420 PAPR Filter System is ideal and highly versatile when needed to support long duration and CBRN mission personnel who face potential CBRN operations. This CBRN PAPR System combines IRT’s CBRN CAP 1 filter, a CBRN protective mask and C420 blower which, when used together, protects the user’s face, eyes and gastro-intestinal tract against known chemical and biological agents in aerosols, liquid and vapour form.

Features
- Flow Rate: > 120lpm exceeds NIOSH
- Power: C420 Battery, LiSO₂ BA 5800/U: 8+ hours
- Temperature Range: -32°C to 49°C
- EMIMIL: STD-461C, Part 4, RE02
- Environmental, Water and Dust Protection: IP68 (inlet & outlet ports)
- Decontamination: Decontaminable
- Dimensions: 220 x 226 x 86mm
- Weight: (without cartridges and battery) 675g
  (with (2) cartridges and battery) 1590g
Physical Protection

Sub System: Individual Decontamination
Model: FAST-ACT Decontamination Mitt

FAST-ACT is a micron sized material with nanomaterial properties used for absorption and neutralisation of a variety of CWA and TIC.

FAST-ACT is a non-toxic, non-corrosive, non-flammable material. It can be safely applied to any toxic liquid spill or vapour release, enabling Emergency Responders to utilise one product when faced with a wide variety of known or unknown chemical hazards. FAST-ACT provides an immediate response to eliminate chemical hazards and minimise exposure. The system has been proven to quickly contain and destroy a wide range of toxic chemicals, including chemical warfare agents.

The FAST-ACT product is available in both extinguisher and mitt configurations. The Decontamination Mitt is impregnated with FAST-ACT decontamination agent for use on personnel and equipment.

Features
- The Decontamination Mitt consists of a pouch containing wipe-down mitt impregnated with FAST-ACT
- It facilitates decontamination through adsorption and neutralisation
- FAST-ACT not only adsorbs a wide range of dangerous toxic industrial and military substances but also neutralises them to safer by-products
- The self-contained mitt package is designed to fit comfortably within work garment pockets, or may also be carried or stored comfortably in small spaces
- It provides personal, portable and immediately accessible first-response protection for personnel working some distances from fixed safety equipment.

Hazard Management

Sub System: Collective Protection
Model: AKS COLPRO

Alaska Structures is one of the world’s largest and most reputable suppliers of deployable shelter systems having supplied over 20,000 shelters to the US and NATO armies in the past 15 years. The AKS COLPRO unit is the culmination of this extensive fabric engineering experience.

The indefinitely inter-connectable units are manufactured with robust powder-coated aluminium frame and heavy weight mil-spec vinyl cover, end panels and flooring, providing a full seal against the outside elements and contamination. Interior lining assists to maintain comfortable internal temperatures and a CBRN /HEPA filter combined with an ultra reliable environmental control unit ensures a continual supply of temperature regulated clean air for the occupants.

The air lock access/egress doors can be combined with an external decontamination system to ensure occupants remain clean and safe. The system can withstand 130km winds and 100mm/hr of rain as well as 60kg/m2 snow.

Features
- Shelter Size: Standard Individual Modules are 6 x 10m
  Custom sizes available
- System Integration: Connection Doors supplied to allow connection to other manufacturers’ systems
- Handling: 4 person lift per shelter
- Deployment Time: Undercover in 5 minutes. Operable in 10 minutes
- Air Distribution: Plenum provided
- Lighting: 50W Fluorescent lighting
- Power: 240V, 50Hz
- Warranty: 5 years
Sub System: Collective Decontamination - Medium
Equipment Decontamination - Medium
Model: IRT CD-M

The IRT Collective Decontamination - Medium is a compact articulated shelter system with a collapsible frame of aircraft grade aluminium support struts supporting a durable PVC outer and chemical resistant liner. The 2 Line Decontamination Shelter proposed for LAND 2110 allows for effective decontamination of mass casualties with a compact footprint in an extremely portable and lightweight package.

Features
Pre-fabricated decontamination design ensures state-of-the-art performance, reliability and speed of deployment

- Integral cloth booms, pre-plumed Quick Connects and patented articulating frame reduces setup time, maintains system integrity and increases functionality
- Curtain set with ground clips segregates male, female and non-ambulatory patients providing undress, wash, rinse and redress stations in the ambulatory lanes
- Patent pending Active Curtains saturate patients with directional 360° of spray with 5 nozzles per station
- Internal ergonomic hand sprayers enable decontamination of non-ambulatory casualties with user directed spray (ordered separately)
- Corrosion resistant, anodised, patented, aluminium frame with chemical resistant fabric provides for long life and reliability
- Interior canopy includes white, opaque skylight that provides ambient lighting; canopy protects exterior frame from contaminants and expedites post use clean-up
- CamLok connectors allow easy plumbing connection with gloved hands.

Sub System: Collective Decontamination - Medium
Equipment Decontamination - Medium
Model: Covertex COV-CD-M

The Covertex range of inflatable shelters has been in service with the Australian and New Zealand Defence Services for over 20 years. Manufactured in New Zealand, the single inflatable-frame reinforced-PVC decontamination shelter provides three stage process from entry, disrobe area, shower area (bunded), dry and re-robe area. The system comes with integrated floor and internal wastewater bunding. The proposed layout for LAND2110 is an adjustable two corridor layout. Various overhead shower and hand spray options are available and the unit can be customised to allow for interconnection cuffs with other shelter systems, side access doors, waste disposal chutes and swinging or fabric doors.

Features
Construction: Reinforced PVC Alloy
Throughput: 40 persons per hour
Dimensions: 6.6 x 3.4 x 2.7m
Total Weight: 120kg
Inflation Time: 5 minutes
Sub System: Collective Decontamination - Medium
Equipment Decontamination - Medium
Model: AKS CD-M

The AKS Collective Decontamination – Medium (AKS CD-M) is a High Capacity Shelter for rapid and effective on-site NBC decontamination of personnel with maximum flexibility for multiple decontamination setups. The rigid, fast erect frame provides superb structural integrity in even the toughest operating environments while the heated water, wastewater, power and lighting sub systems are designed to maximise decontamination capability within a very small packed footprint for ease of transport and handling.

Features
- Maximum 2 person lift for all items
- Ambulatory and non-ambulatory decontamination
- 9 minute cycle time for most decontamination scenarios
- Sheltered processing area at front and rear of unit
- Deployable in 20 minutes with a 4 person team
- Easy modular design allows for in field repairs
- Non slip flooring
- Internal liner allows for hot and cold weather deployments
- Adjustable water temperature (max 50°C)
- Wastewater is fully contained in robust storage bladder
- Power and lighting: 240V, 50Hz
- 10 year minimum shelf life.

Sub System: Equipment Decontamination
Sensitive Equipment Decontamination – Light
Sensitive Equipment Decontamination – Medium

Model: DeconGel

DeconGel is extremely versatile, for use on virtually any surface such as concrete, painted or unpainted wood and metal, aluminium, Plexiglas, tile and grout, linoleum and much more. Safe and extremely user-friendly, DeconGel requires no preparation prior to use and can be either painted or sprayed onto a contaminated area, including cracks, pores and voids.

DeconGel is easily sprayed or brushed onto contaminated surfaces, horizontal or vertical uses are no longer a problem and, unlike some other decontamination products, DeconGel is also safe, with virtually no odour or fumes. The use of respirators while applying the product may not be necessary.

DeconGel has super tensile strength and toughness – the dried gel is difficult to tear so it peels easily from most surfaces, even rough surfaces such as pavements.

DeconGel is a safe alternative to acids or soap and water, all contaminants are contained within the gel resulting in no contaminated run off.

Product #1101 (brush-on or trowel-on applications, all horizontal & vertical surfaces): Gel for Radioactive and Chemical Clean-up.

Product #1108 (brush-on or trowel-on applications, all heavily contaminated horizontal & vertical surfaces): Spray for Radioactive and Chemical Clean-up.
Hazard Management

Sub System: Equipment Decontamination
Sensitive Equipment Decontamination – Medium
Model: FAST-ACT Extinguisher

FAST-ACT is a combination of common metal oxides (MgO + TiO2) with a unique morphology. It has nanomaterial properties with a final particle size of nearly 5μm.

The production process creates an altered, non-toxic molecular structure with a large increase in porosity and surface area. FAST-ACT is effective against vapour hazards including a wide variety of chemical warfare agents.

Features
- Non toxic to humans
- 5 year shelf life
- Insoluble in water or moisture
- Available in granule (filter) and Decontamination Mitt
- No preparation required
- Cleans with water flush
- Effective in minutes
- Chemical vapours are converted to non-hazardous product for easy disposal
- Hydrocarbon vapours adsorbed in minutes
- Nontoxic, non-corrosive, and non-flammable
- Dry powder formulation
- Blend of earth minerals.

Sub System: Environmental Hazard Management
Model: Covertex Fluid Containment Systems

OPEC has been working with Covertex for over 20 years to design and supply flexible tanks and fluid containment solutions for potable water, fuel and wastewater applications. Many of these systems are still in service with Defence. These unique engineered solutions are available in numerous sizes and configurations for maximum convenience and durability.

Covertex flexible drums are a versatile solution for the storage of waste and potable water. They enable high volume storage with a small footprint, while also providing pressure for easy decanting. From flat, the drums erect as they are filled and a pressure relief valve prevents over-filling. Our flexible drums are stable on slopes of up to 6 degrees. They can be constructed with lifting straps if required.

Covertex transport tanks are used for carrying a wide range of liquids, including foodstuffs, chemicals and hydrocarbons. They allow standard trucks to become tankers and can be customised to suit any vehicle size, providing a volume range from 1,000 to 12,000 litres.

Features
- HF-welded construction for superior containment
- Manufactured in chemical and abrasion-resistant XR5
- Wall support stays can be internal or external
- Walls can be quickly collapsed to allow vehicle entry into bund
- Quick single-person deployment
- Supplied in a carry bag with setup instructions
- Walls are 350mm high
- Two standard sizes (1.2 x 1.2m; 2.4 x 1.2m)
- Special sizes can be made on request
- Foam collars can be fitted on request.

Sub System: Environmental Hazard Management
Model: Structurflex Batten-Supported Bunds

Ideal for housing vehicles, plant or machinery, Structurflex Batten-Supported Bunds effectively contain contamination. The HF-welded XR5 membrane used is chemical resistant and the packaged system packs into a fraction of its deployed size. One person can deploy a Structurflex Batten-Supported Bund in less than five minutes.

Features
- Non toxic to humans
- 5 year shelf life
- Insoluble in water or moisture
- Available in granule (filter) and Decontamination Mitt
- No preparation required
- Cleans with water flush
- Effective in minutes
- Chemical vapours are converted to non-hazardous product for easy disposal
- Hydrocarbon vapours adsorbed in minutes
- Nontoxic, non-corrosive, and non-flammable
- Dry powder formulation
- Blend of earth minerals.

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Medical Support

Sub System: Contaminated Casualty Handling
Model: IRT ISO-POD

Designed to create a negative air pressure environment when connected to the HEPA Air Filtration System. In this mode the ISO-POD protects healthcare providers from contaminated patients. In the positive pressure mode the unit can be used to create a positive air pressure environment for burn or immune compromised patients. The flow of air provided by the filtration system also helps cool and relax the patient.

Features
- Constructed from 18oz. reinforced white FR rated PVC and 16oz. clear vinyl material, heavy duty and puncture resistant
- 100mm wide, gloved access points allow easy, multiple access points to your patient
- Five flexible arches along the length support the vinyl above patient, allowing voluminous work/patient space
- Zipper runs the length of the ISO-POD
- Some models include a Restraint Strap System inside to help maintain and secure a patient to the gurney during transportation
- Clear view windows
- 4 CFM (nominal) blower unit with rechargeable battery and charger
- Greater than 12 air exchanges per hour
- Some models include pass thru ports to allow objects to enter to the ISO-POD
- Service ports to allow IV, oxygen lines to exit the ISO-POD
- ISO-POD can be decontaminated.

Sub System: Contaminated Human Remains Storage
Model: IRT Contaminated Human Remains Pouch (CHRP)

The CHRP is a rugged, disposable absorbent body bag that protects medical and support staff from potentially harmful chemical and biological agents on contaminated cadavers and body parts. The bag’s innovative design – thermal seals, finished edges, treated nylon backing, and a heavy duty, fluid-proof zipper – creates a leak-proof inner chamber that protects service providers from bacteria-laden body fluids and chemical and biological agents.

Constructed with a highly absorbent cellulose core that retains over six litres of fluid, IRT’s CHRP is designed to work independently or with a stretcher for staging, storing, and transporting deceased personnel and body parts. The CHRP features a surface-active agent for odour control and the rugged design lessens the chance of environmental contamination.

Features
- Finished Product Size: 91.44 x 231.14 cm
- Target Absorbency (H2O): 6,500 – 6,850 grams (Target = 6,850 grams, or 6.7 litres)
- Weight Capacity: 190.51 – 204.12 kg
- Pad Thickness: 0.32 cm
- Pad Weight: 2.99 kg
OPEC provides accredited training, service and maintenance for all of the systems we provide.

OPEC takes its quality, safety and environmental responsibility very seriously. Our systems have been accredited under ISO 9001, AS4801 and ISO 14001. Additionally, our Occupational Health and Safety systems have been accredited by the Office of the Federal Safety Commissioner.