



### Chemring Australia Pty Ltd

Chemring Australia is supplier of countermeasure flares for Australian, US and international F-35 operators, in addition to a range of sophisticated electronic systems. Their state-of-the-art manufacturing plant in Lara Victoria is the world's most advanced countermeasures manufacturing facility.

### FUTURE FOCUS



*At Wiley, we enable and challenge ourselves and our clients to lead. We are always receptive to new ideas. We embrace change and the future with enthusiasm. We take pride in our ability to creatively problem solve and find the best solution in every situation.*

### Celebrating key collaborators



**Countermeasure Testing Windstream, Lara, Victoria**  
**Wiley services delivered: Master planning, design, value engineering, construction, project management, Principal Contractor, as well as equipment concept design, installation and commissioning**

### Business value created for the client

Chemring and Wiley share the common value of being future focussed and we were enthusiastic to deliver this innovative project solution with them.

This new and innovative testing facility has been constructed in accordance with the testing requirements of its international customers, thereby providing Chemring with access to the sizable export market. The building facilitates testing countermeasure flares for compliance purposes, enabling safe and secure observation of the test and access for changeover of countermeasures at safe points during the process.

### The challenging scope Wiley delivered

Wiley design, engineering and construction specialists worked closely with the client, specialty subcontractors and our innovative supplier network, to develop an entirely new concept for testing flares, that provided a more accurate result and a faster turnaround time between tests. The solution delivers the airspeed and decay curve required for testing compliance in a more efficient and reliable method than used anywhere else in the world.

This highly-collaborative approach ensured the facility complied with military standards, met the client's objectives, and worked perfectly from the first test conducted at the facility. The project involved:

- Design of the building layout to accommodate short turn-around testing cycles and subsequent evacuation of smoke for quick reuse
- Design and fit out of an observation room and control room, which housed firing controls and observation equipment
- Concept and design of a completely new method to simulate the windspeed of a military aircraft and corresponding test requirements
- Installation and commissioning of the wind tunnel equipment, automation and safety systems to ensure the system was operated safely and efficiently at all times.

