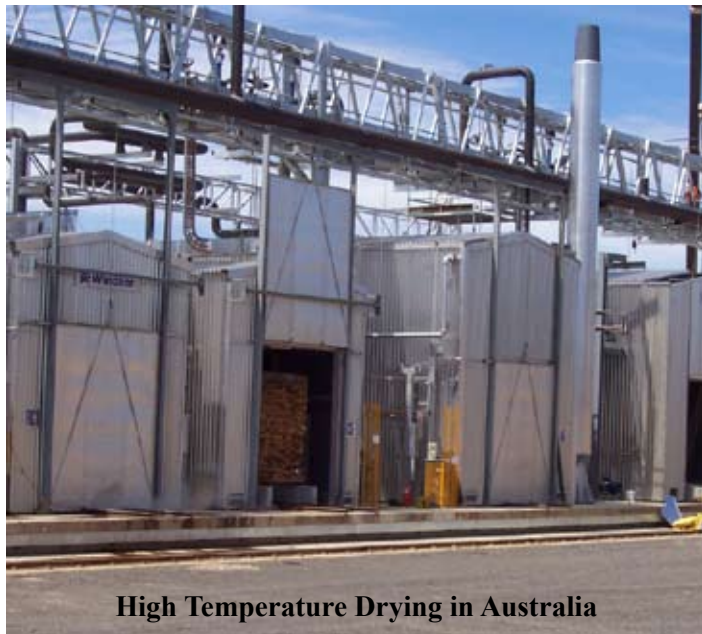


## WINDSOR TECHNOLOGY INC - A BUSY YEAR IN THE USA

**Windsor Technology** and its subsidiary **DryTrack** have enjoyed a busy first year's operation in the USA, completing a new advanced-technology dry kiln for Weyerhaeuser in the South East and installing in-kiln moisture content systems on 12 sites. This has provided both Windsor and DryTrack a solid platform for future sales in both the USA and Canada.

**Windsor Technology Inc** is a subsidiary of both Windsor Engineering and Automation & Electronics. Both parent companies are well established in New Zealand, and have worked together for 20 years in dry kiln and control systems. Windsor Technology now has two USA based staff transferred from New Zealand, Mechanical Engineer Blair Heppleston and Controls Specialist Richard Baty.



High Temperature Drying in Australia



A Windsor Double Track Kiln

**The new Windsor dry kiln for Weyerhaeuser will set new performance standards in the USA.**

The dry kiln has advanced engineering features previously established in Australasian kilns, where high temperature drying of plantation lumber is well developed.

Windsor kilns have been developed to be more energy efficient. The all-aluminium kiln construction and compartment panelling is designed to provide not only a long service life but also to prevent insulation slumping, a common source of heat loss in dry kilns. The fans are direct drive and are controlled by variable frequency drives. This provides 7%-8% of additional energy at the fans and eliminates the maintenance and service issues associated with vee belt drives. It allows smaller electrical motors to be installed. Combined with Windsor's knowledge of the exact relationship between fan speed and pitch angle, operators can look forward to optimised air speeds, higher efficiencies, and reduced electrical power consumption and running costs. Smaller motors also result in reduced first costs for the motors, the site electrical wiring, MCCs, and VSD's.

Another key difference in Windsor's dry kiln equipment is the heat exchanger finned tubing and its position in the kiln. The use of aluminium fins reduces both the airside pressure drop and the amount of finned tube required. This frees fan energy for the more important task of providing airflow for faster and more uniform drying, rather than battling heat exchanger pressure drop.



Direct Drive Fan System

**Dryspec, Windsor Technology's kiln control system, is the most developed, powerful and user friendly system available today.**

Conceived by the Forest Research Institute of NZ (now Ensis) and Windsor Engineering in 1985, it has been subject to continuous development and a huge number of site installations, evolving into the sophisticated product it is today.

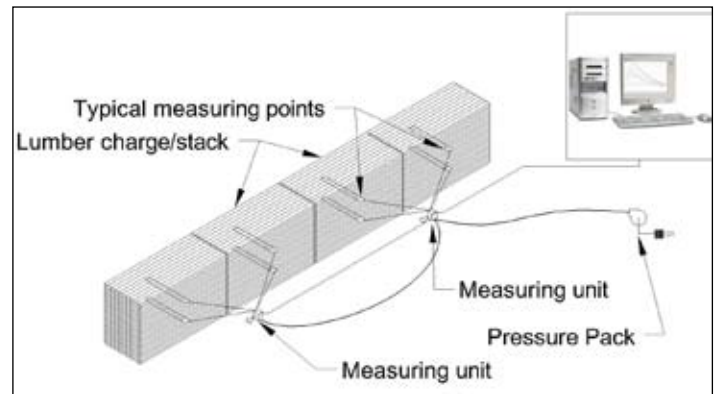
In addition to its kiln and energy management control capabilities, it has reporting and remote alarm and messaging functions. These allow production control and quality monitoring to be readily available to management, and operators able to be contacted when off-site, alerting them of any unusual drying performance or production variations.

**Dryspec also integrates with the DryTrack in-kiln moisture content system.** Automatic shutdown or schedule changes can be triggered as lumber moisture content criteria are reached. DryTrack provides extremely accurate and reliable data on lumber moisture content, avoiding excessive drying and degrade, and increasing productivity of existing kiln facilities. A payback of less than one year can be expected with DryTrack.

DryTrack is a capacitance based system and comes with a three year guarantee on all components. It features an air pressurisation system that protects the electronic components from unfavourable temperature or humidity conditions.



**Dryspec 2000 - a screen example**



**The DryTrack system**

**Windsor has an in-depth knowledge of lumber drying and an accumulated engineering experience developed from over 500 advanced dry kiln installations.** Windsor prides itself in working closely with clients to develop optimum specifications for their drying requirements and to deliver well managed and quality solutions to the highest standards.

The best way to contact Windsor Technology is by direct line to either Blair Heppleston in Asheville NC, where he is located with Rob Girardi's team at KDS, or to Richard Baty in Ruston LA, resident with Windsor Technology's site installation contractors WPS Industries.



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