QUARTER TURN QUICK CONNECT COUPLING

Background - The decision was made at the spring 1999 FEWT meeting to analyze the feasibility of conversion from threaded coupling components to quarter turn quick connect coupling. A survey was conducted in November 1999 through the agency directors at NIFC.

Survey and Summary of Results

A total of 225 responses were received with the majority coming from the U.S. Forest Service.

1. What type of hose fittings are you using now? 93% Threaded

2. If you are using both, are you in the process of converting to quarter turn? 18% Yes

3. If Federal Wildland Firefighting Agencies consider a conversion to quarter turn hose fittings, would you support this effort? Yes - 113 No - 95

4. How much hose do you normally stock on an annual basis? Responses were used to factor into field and local cache inventory amounts.

Why change to quarter turn quick connect?

- Superior System
 - ° Short term cost, long term gain
- Efficiency and Performance
 - 20% increase in efficiency
 - ° Easier to deploy
 - [°] Reduces training time (its foolproof)
 - ° No leaks in hoselay
 - ° Reduced weight in hose packs and on vehicles
- Hardware Reduction
 - [°] Fewer fittings; 1" & 1¹/₂" are interchangeable
 - No male / female fittings
 - ° 12 fittings become obsolete (adapters, couplings, reducers, increasers) saving \$128,821 yr
- Interchangeability with Canada

How much will it cost?

• 2.46 M - Hardware costs to purchase adapters & coupling sets to retrofit existing inventory

Recommendation

Convert to quarter turn quick connect couplings. Purchase adapters for existing inventory in national caches and field. Consider re-coupling hose vs adding adapters, recycling scrap metal to help offset cost.

Kim Christensen, Chair - NFES National Interagency Fire Center 208-387-5418