Chemical Testing of Commercial Vessel Personnel: An Analysis of Archived Test Results

Walter J. Brudzinski
Chief Administrative Law Judge
U.S. Coast Guard
Post Accident Drug Test
Positivity Rates: CFVs vs. SPVs

![Graph showing post-accident positivity rates for CFVs and SPVs from 2003 to 2011. The x-axis represents the year, and the y-axis represents the post-accident positivity rates. The graph compares the positivity rates between CFVs and SPVs over the years.]
Post Accident Alcohol Test
Positivity Rates: CFVs vs. SPVs

Alcohol Test Positivity Rates

Year

2003 2004 2005 2006 2007 2008 2009 2010 2011

ETOH Positivity Rates CFV
ETOH Positivity Rates SPV
Post Accident Drug Test Positivity Rates: CFVs vs. ALL Vessels

![Graph showing Post Accident Drug Test Positivity Rates (CFV) and ALL Vessels from 2003 to 2011.]
Pre-Employment, Random, and Post-Accident Drug Test Positivity Rates: All Vessels
Positive Drug Tests per Serious Marine Incident: CFVs vs. SPVs

![Bar chart showing the comparison of positive drug tests per serious marine incident (SMI) for CFVs and SPVs from 2003 to 2011. The chart indicates a higher rate of positive drug tests for CFVs post-accident compared to SPVs.]
Positive Alcohol Tests per Serious Marine Incident: CFVs vs. SPVs


- CFV pos ETOH tests/SMI
- SPV pos ETOH tests/SMI
Random vs. Post-Accident Drug Test Positivity Rates: All Vessels

Random and Post-Accident Positivity Rates, By Year

P-A Pos Rate (Per 100 Tests)  Random Pos Rate (Per 100 Tests)
Random vs. Post Accident Linear Relationship

Scatter Plot of MIS Reporting Data
Random Positive Rate v. Post-Accident Positive Rate

- P-A Pos Rate (Per 100 Tests)
- Linear (P-A Pos Rate (Per 100 Tests))