



## Advanced Vehicle Safety

### Embankment Rollover Testing

Applus+ IDIADA has strengthened its vehicle safety testing portfolio by expanding our testing capabilities with the inauguration of a new Embankment Rollover testing facility at its Adelanto location, California, USA. The new installation features a comprehensive setup designed to conduct various rollover test configurations.

#### Complete Range of Rollover Test Cases

- Ramp rollover
- Sand bed rollover
- Curb rollover
- Embankment rollover

#### Precision Testing

- Multiple slope configurations for varied test scenarios
- Accurate rollover simulations

#### Comprehensive Safety Evaluation

- Assess vehicle stability
- Evaluate occupant protection systems
- Analyze structural integrity during rollovers

#### Versatile Testing Scenarios

- No-roll tests
- May-roll tests
- Must-roll tests

#### External Propulsion system

- Enables testing of non-fully functioning vehicles

## FACILITY SPECIFICATIONS

#### Surface

- High-friction coefficient concrete surface
- Ensures realistic and consistent testing conditions

#### Depth And Approach Angles

- Total depth of 5 meters (16.4 ft)
- Approaching paths start at 10° and can be increased gradually
- Designed to accommodate various vehicle types and test requirements

#### Multi-Slope Configuration

- 30° slope (50m/164 ft long) for no-roll tests
- 40° slope (20m/65.6 ft long) for may-roll tests
- 50° slope (10m/32.8 ft long) for may-roll/must-roll tests

#### Engineered Transitions

- 40° to 50° transition (approximately 5m/16.4 ft long)
- 50° to 65° transition (approximately 10m/32.8 ft long)
- Ensures smooth progression between different test phases

#### CONTACT INFORMATION

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