Simulator Scenarios to Enhance Aircraft Safety

HSAC Briefing - 2017

"The best safety device in any aircraft is a well-trained crew."

Safety Culture

FlightSafety Care

FlightSafety, International

FlightSafety international

HSAC Briefing

OBJECTIVES

SCENARIO/LP DEVELOPMENT

LOADING SCENARIOS/LP

ACCESSING SCENARIOS

HSAC SCENARIO

LESSON PLAN

INSTRUCTOR WORKLOAD

IOS COMPARISON

HSAC DEMO

SUMMARY

QUESTIONS

OBJECTIVES

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SUMMARY

- Integrate SMS programs to enhance training – reducing risk and improving standardization
- To introduce how the simulators can support customer specific training requirements to enhance safety
- To provide a brief discussion on the development, creation and loading of scenarios
- To provide background as to how various customers have used scenarios in training
- To discuss how the use of scenarios could reduce instructor workload, increase standardization and move instructor focus away from the IOS towards crew evaluation

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- What is needed to develop a LP/Scenario
  - Training Plan
  - Visual Models
    - Airports/Pads
    - Platforms
    - Additional requirements such as traffic (LP)
  - Weather
    - All phases of flight
  - Location
    - Placement of models
  - Aircraft conditions (Lesson Plan Function)
    - GW
    - CG
    - Fuel/loading
    - Aircraft configuration
  - Malfunction (Lesson Plan Function)
    - What
    - When
    - Were

- Customer determines content & objectives
- FlightSafety Team supports building/testing
- Customer approves final product
  - Customer naming conventions
- Sim Techs save to training load
- Training load validation
- Changes during training are not saved
  - Reverts to saved scenario/lesson plan

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- Selected from Environmental Page of IOS

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• Select the desired scenario
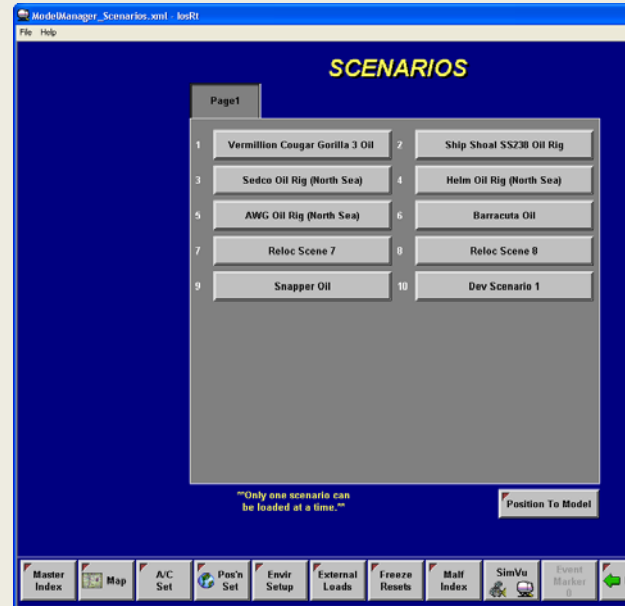
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Scenarios can be built such as the aircraft is placed in a specific location or the instructor can select any of the models placed in the scenario
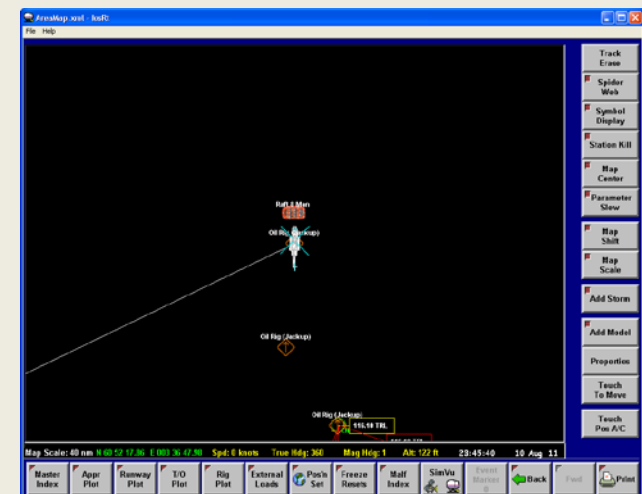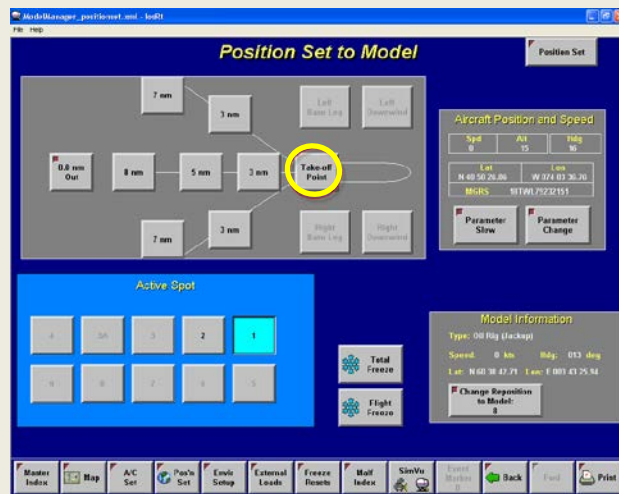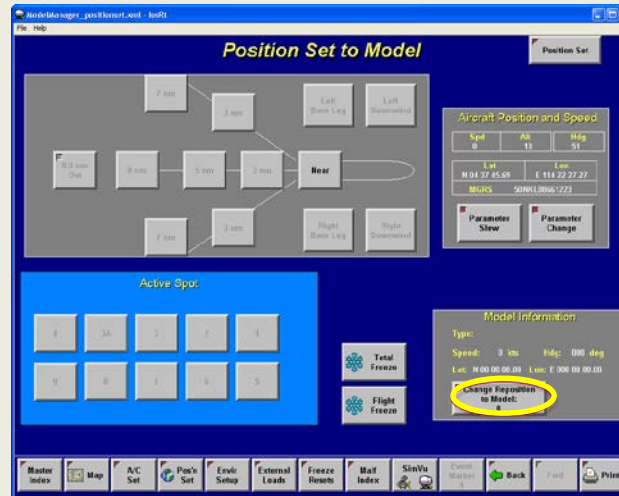
7/31/2017

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• When completed or moving to a new scenario select:
  UNLOAD SCENARIO and select new scenario

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- # Specific Training

- Fewer IOS selections to initiate training
- Fewer IOS selections during training
- Create scenario/LP to meet training objectives
- Simplifies IOS selections for complex actions
- Standardized instruction

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OBJECTIVES

SCENARIO/LP DEVELOPMENT

LOADING SCENARIOS/LP

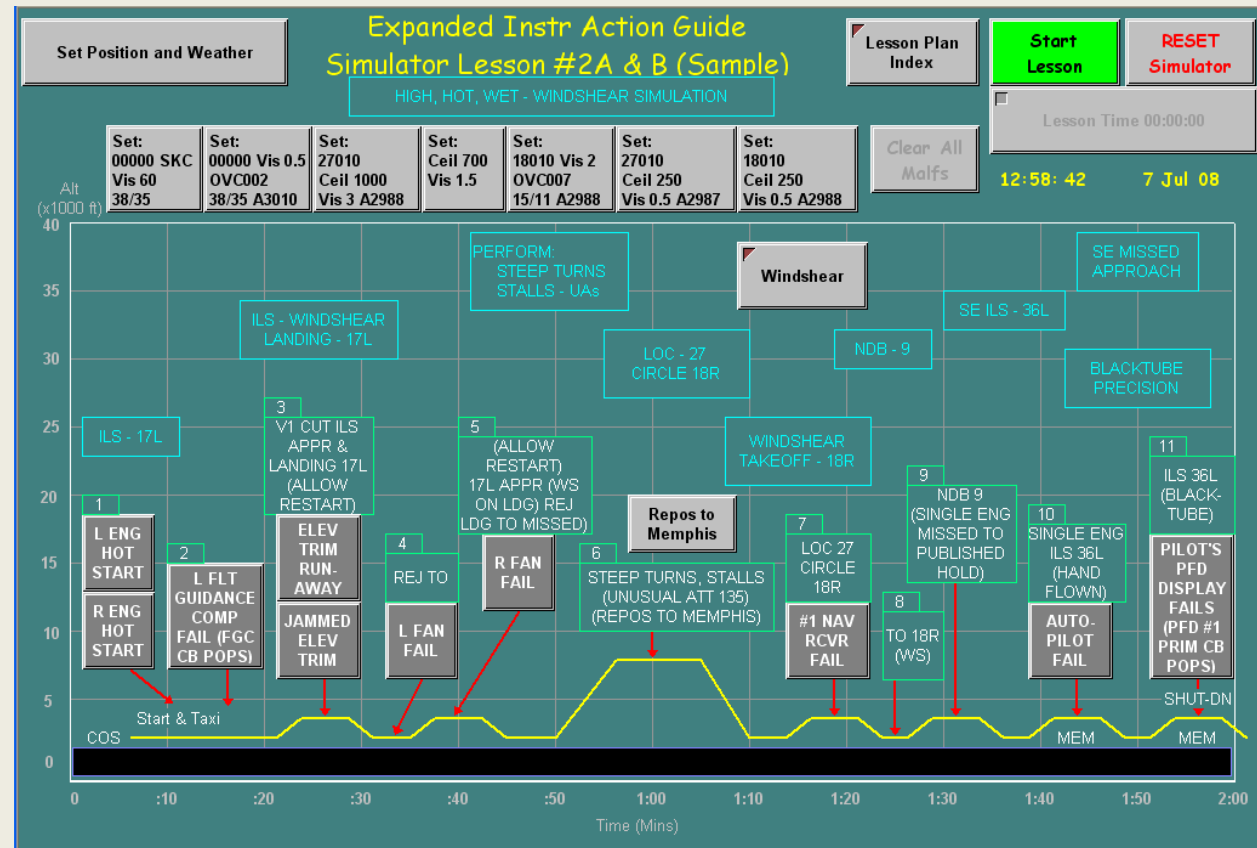ACCESSING SCENARIOS

HSAC SCENARIO

LESSON PLAN

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SUMMARY

QUESTIONS

POA   SCENARIOS   LESSON PLAN

REQUIRED IOS SKILLS   WORK LOAD   STANDARDIZATION   FREE PLAY   MODIFICATIONS

HSAC BRIEFING

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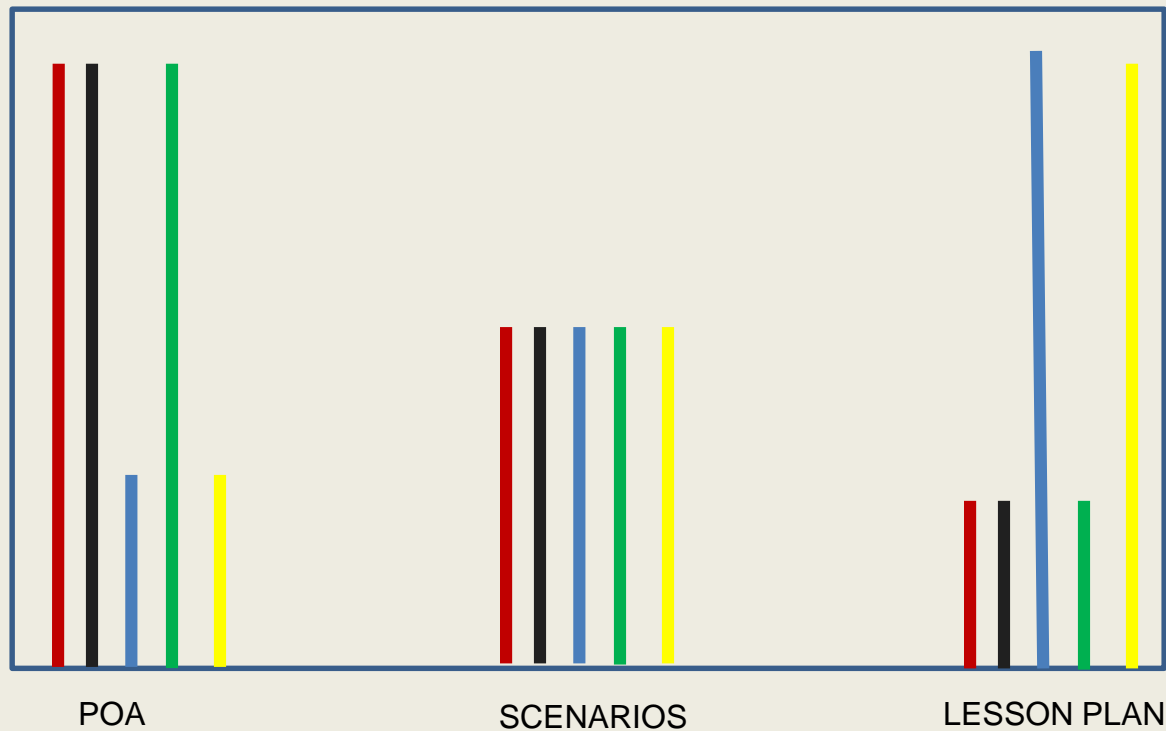
IOS COMPARISON

HSAC DEMO

SUMMARY

QUESTIONS

S-92 -1330 to 1530

- Scenario/LP based training enhances learning improving aircraft safety
- Sim scenarios/LP are based on the operators training requirements
- Basic scenarios can be modified as need to support training
- Properly created scenarios/LP can reduce instructor workload, increase standardization and move instructor focus away from the IOS towards crew evaluation

QUESTIONS?