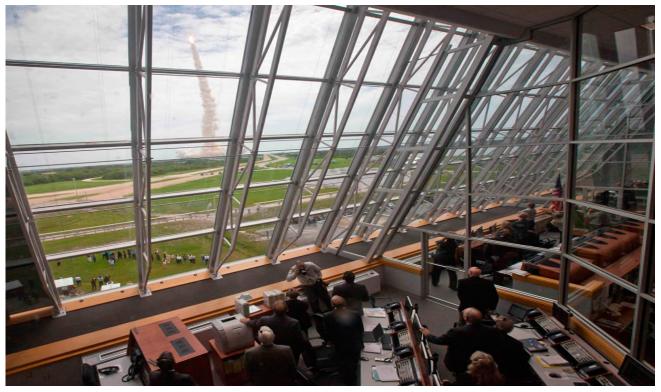


Our Mission

Is to design and equip mission critical operations



NASA - Shuttle Launch Control Room (Firing Room #4) - Kennedy Space Center, FL

We understand Control Rooms!

Evans completes approximately 20-25 control room projects, plus 35-40 additions to existing control rooms - every month

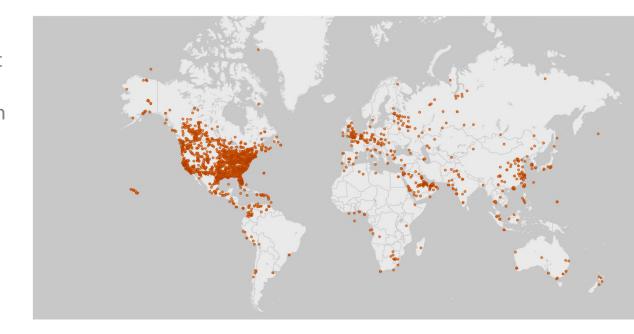
What this means to you;

- In depth understanding of what is required to design the optimum control room
- Continuous view into how control rooms are evolving from an operational, design and technology perspective
- Continuously expanding our understanding of opportunities and pitfalls in the control room design process
- Leveraging our continuous learning on future projects

A Global Perspective

Evans has Designed and Implemented over 15 000 control rooms around the world

- We leverage our global perspective of how control rooms designed in different regions in terms of best practices, innovation, efficiency and risk mitigation
- Maintain consistent standards of design and execution around the world
- Ability to fully execute anywhere in the world



Understanding Multiple Control Room Applications

- In depth understanding how other control rooms markets operate
- Ability to apply lessons from other applications in terms of Design, Operational Planning & Technology
- Leverage real applications to aid in implementing new operational environments by providing existing sites as references



Services & Products That Support the Entire Control Room Lifecycle

Evans' products and services allow us to support our partners and customers in every stage of the Control Room project lifecycle

Consulting Control Room Construction Console Design Installation & EvansCare Manufacturing







Focus on Expertise, Standards and Quality

- Focus Evans expertise and focus is on control rooms and the control room suite. That is all we do.
- Resources Our team includes subject matter experts in multiple areas Control Room Design including Architects, Professional Engineers, IT Experts, AV Engineers, Desing Engineers and Ergonomics Experts
- Design Standards Evans follows global design standards for control room design, Ergonomics, quality and safety including ISO 11064, ISO 9001, NUREG, BIFMA and others
- Environmental standards Evans has implemented multiple environmental standards that are utilized in design and products within control rooms including ISO 14001, Greenguard, FSC and others.



















Oil & Gas





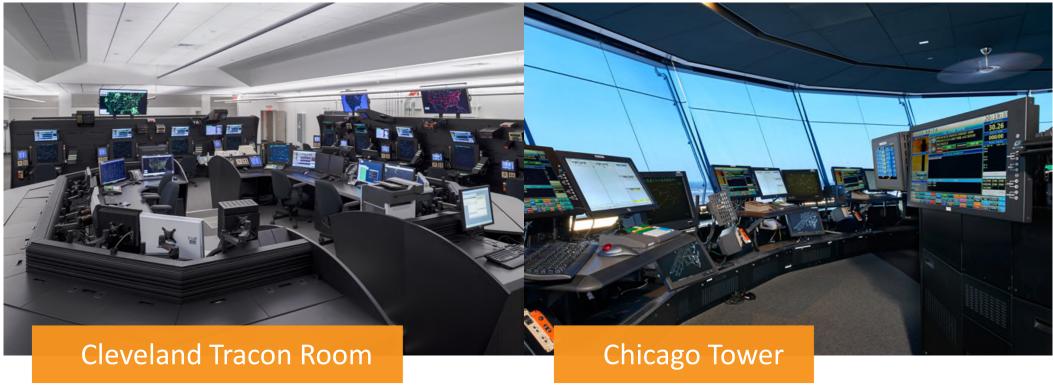
AEROSPACE



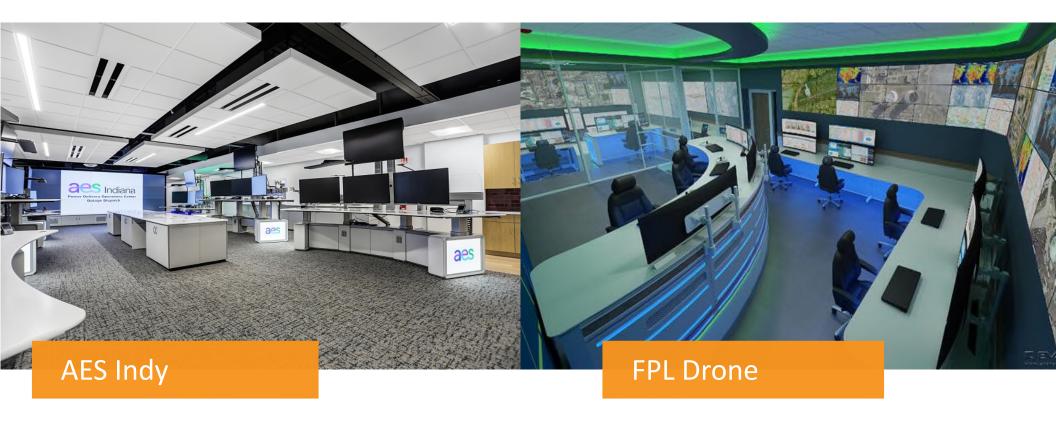


Air Traffic Control





Energy & Utilities



Selected Successes

Emergency Operations Dispatch Centers



International





Universal Pictures



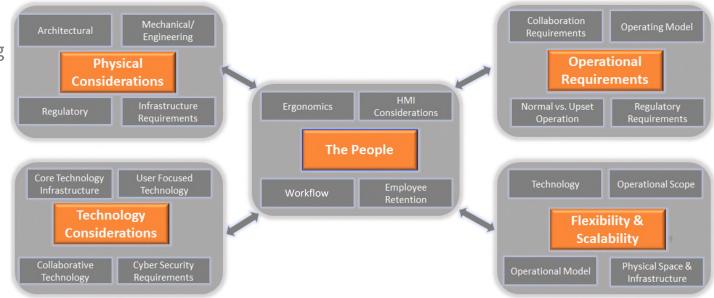




Control Room Vision

Engaging Evans early can reduce costs and problems later

- Comprehensive approach that looks at all aspects impacting the design of an ideal operating environment
- Unique position to understand trends, technology features, innovative operating models and best practices across industries and geographies
- Flexibility to tailor each solution to the needs of the operation while balancing constraints



Phase 1 – Conceptual Planning

CONCEPTUAL DESIGNS - Architectural

- Architectural layouts of space based on the established operational plan;
 - Site survey and existing conditions drawings (floor plan & ceiling plan)
 - 2-3 Conceptual Floor Plan Options (Preferred option to be developed into drawing package)
 - Proposed Floor Plan (with Furniture & Equipment)
 - Proposed Reflected Ceiling Plan
 - Proposed Floor Finish Plan (usually conveyed on floor plan)
 - Proposed Interior Elevations
 - Color/Material Board (2-3 options)
 - Proposed Renderings





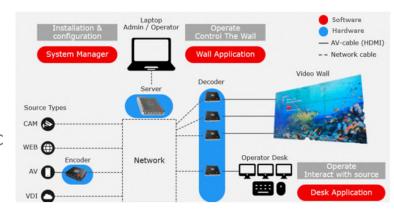


Phase 1 – Conceptual Planning

CONCEPTUAL DESIGNS – AV & Technology

- Conceptual Display Layouts both for operator monitors and for common viewing displays (video walls)
- Conceptual AV hardware & content management options strategic alternatives based on operational performance, budget and overall system flexibility. This includes:
 - Display hardware options (LED, LCD, single displays, matrix displays and similar)
 - Video processing hardware/software alternatives
 - Content management (IT source management/consolidation options

NOTE: Evans takes an agnostic approach to technology design whereby we will recommend the best manufacturers of AV hardware or software depending on the specific operational or budgetary requirements.

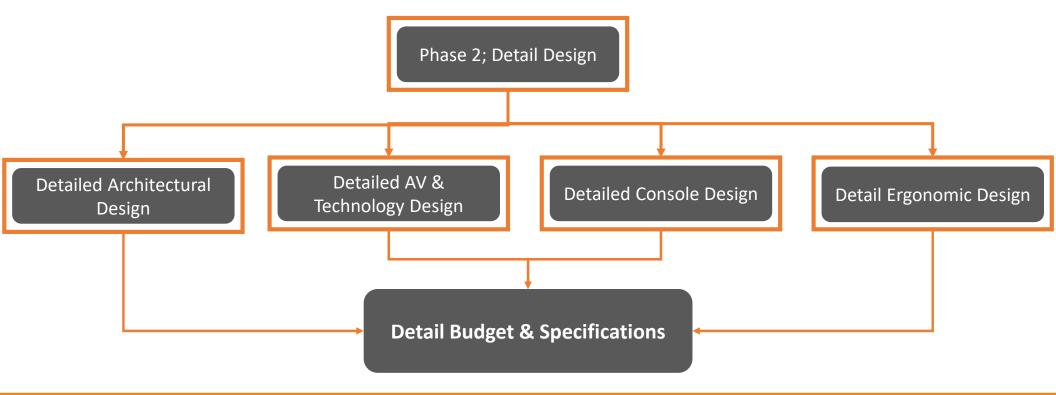




Phase 2 – Detailed Design Phase

Phase 2 – Detail Design

Once a conceptual design direction is selected, Evans completes a detailed design which encompasses all of the critical aspects of the control room. Upon completion of the detailed design, a complete budget and specifications can be developed.

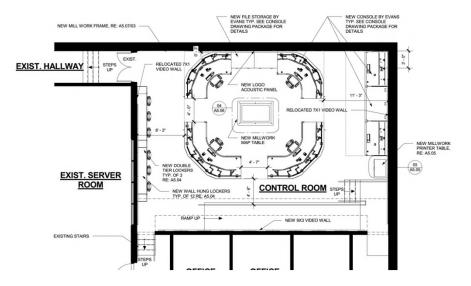


Phase 2 – Detail Architectural Design

Architectural Design Intent Drawing Package

- Site survey and existing conditions drawings (floor plan & ceiling plan)
- Project scope/needs Information gathering with key personnel
- 2-3 Conceptual Floor Plan Options (Preferred option to be developed into drawing package)
- F,F, & E Plan (Fixture, Furniture, & Equipment)
- Demolition plan & Details
- Demolition ceiling plan & Details
- Floor Plan & Details
- Reflected Ceiling Plan & Details
- Light Study
- Raised Floor Plan & details
- Floor Finish Plan & Details
- Interior Elevations & Details
- Color/Material Boards (2-3 Options)
- Renderings
- Product Specs



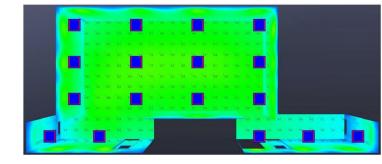


Phase 2 – Detailed Architectural Design

Lighting Study

- F,F & E Plan (Furniture, Fixture, & Equipment)(as required)
- Demolition ceiling plan & Details (as required)
- Reflected Ceiling Plan
 - Lighting layout
 - Light Zone Diagram
- Light Study
 - Rendering of the proposed Illuminance Levels within the space
- Console Overlay Plan w/ Ceiling
- Product Specs/Cut sheets
 - Light fixtures
 - Switches
 - controllers

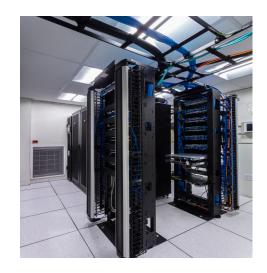


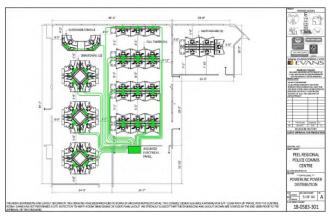


Phase 2: Detailed Technology Design

Technology and AV Design

- Network infrastructure recommendations
- Overall AV system design
- AV Hardware design & Specification's
- AV processors and controller specification
- Secure vs. non secure content mapping
- Cabling infrastructure, server location, power and data distribution
- IDF room planning and design
- Cabling design and planning







Phase 2: Detailed Console Design

- Console design based on architectural and technology requirements
- Integration of all required equipment into each console
- Functional and ergonomic features based on design requirements
- Integrated visual alarms
- Monitor display system
- Auxiliary control room furniture (technology tables, millwork and similar)



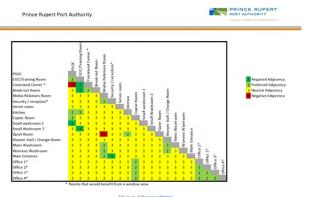


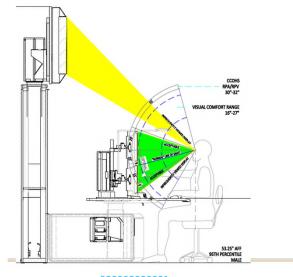


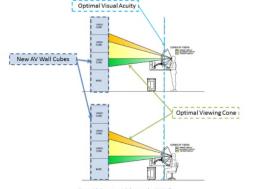
Phase 2: Detaield Ergonomic Deisign

Level II - Ergonomic Design & Validation

- Ergonomic design validation
 - Physical
 - Cognitive
 - Organizational
- Regulatory compliance considerations
- ISO 11064 review & compliance of all proposed solutions
- Review and compliance to customer specific human factor standards
- Visual sightline study









VR Design Assessment

- A virtual model of the proposed room is created for evaluation
- Allows for the detailed evaluation of
 - The physical space
 - Operational evaluation
 - Content and display evaluation
- Key consideration for control room design...
 - Immersive
 - Real
 - Precise
 - Flexible
- Creates engagement on all levels....
 - Operator Level
 - **■** HSE
 - Facilities
 - Management





Design Services Offering

Level III – Construction / Bid / Permit Drawing Package

- Site Visit with full Architectural and Engineering team:
 - Detailed Site Survey
 - Meetings with Client and support staff
- Stamped and Sealed Architectural & Engineering drawings & specifications required for construction/bidding/permitting of Project limited to the following disciplines:
 - Architectural
 - Structural
 - Mechanical (HVAC)

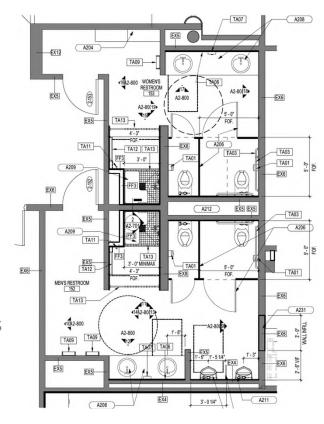
ENGINEER No. 00000

- Plumbing
- **■** Electrical
- Fire Protection
- Pricing includes Construction Administration Services for all disciplines

listed ab







Construction Services

Construction Management for the Control Room Suite

- Pre-Construction Planning
 - Physical Site Surveys
 - Demolition & Construction phasing
 - Live cutover planning
 - Construction Scheduling & Sequencing
 - Safety Plans / Emergency Action Planning
- Construction
 - By Evans Project Manager & On-Site Superviso
 - **■** Full Construction services including:
 - Raised flooring
 - Ceilings and Lighting
 - Plumbing
 - HVAC & Electrical
 - Fire Alarm & Fire Protection
 - Acoustical Treatments
 - Access Control
 - Kitchens/Breakrooms/Rest & Recovery/Locker Rooms

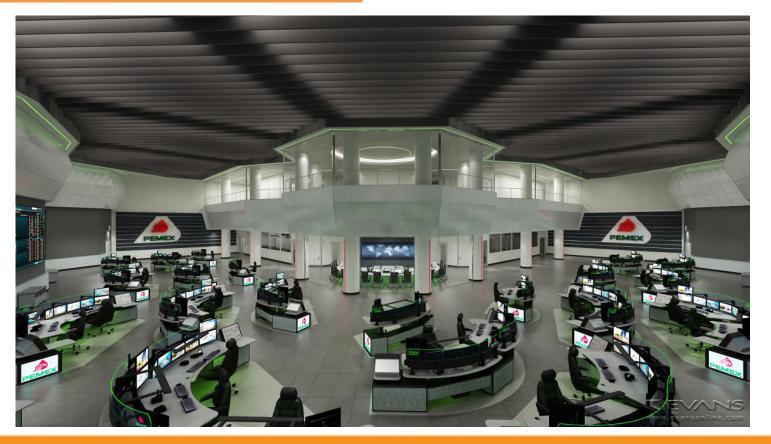






Project Examples – Turnkey Design, Construction & Implementation

























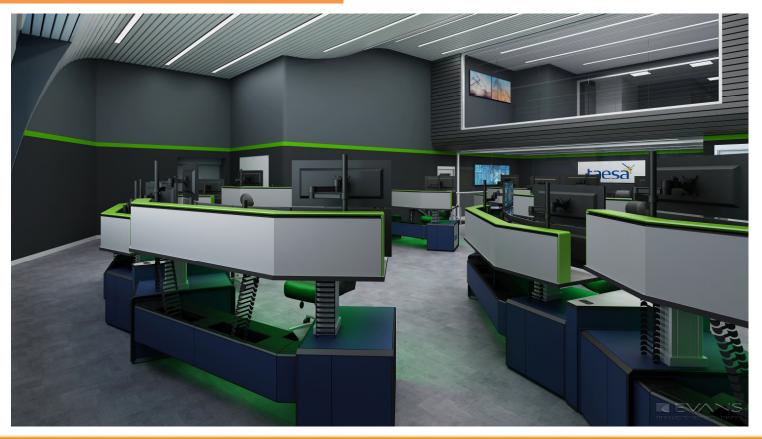


TAESA, Rio de Janeiro, Brazil



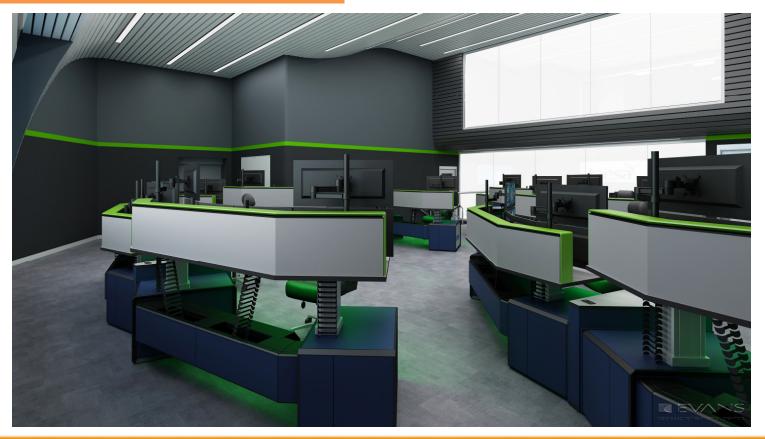






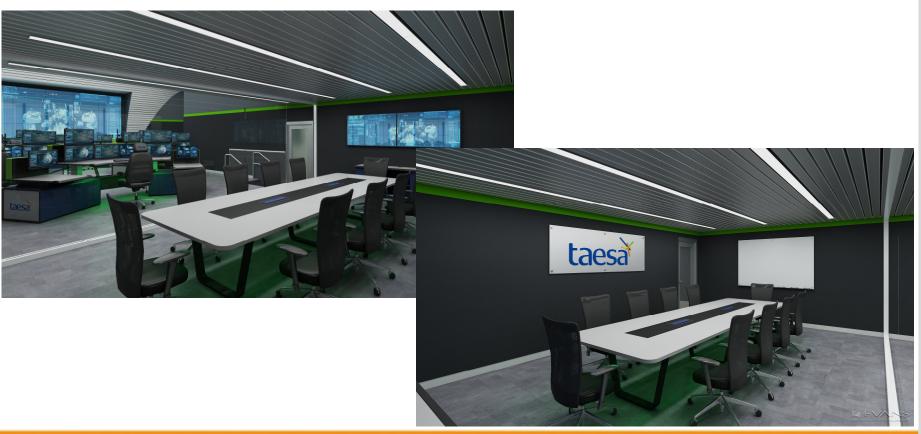








TURN KEY SOLUTIONS









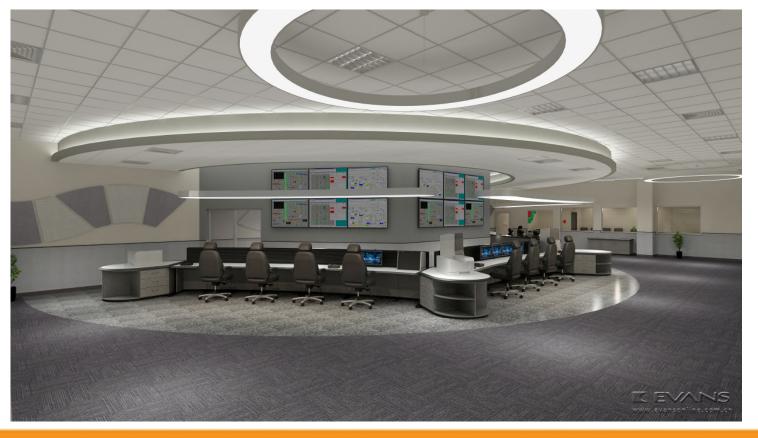












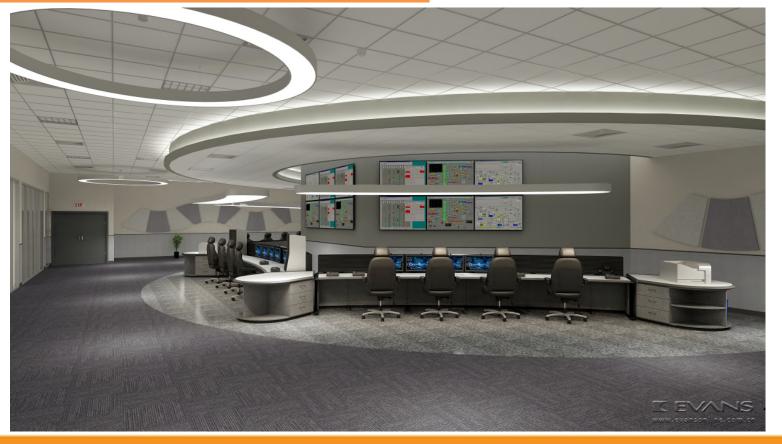






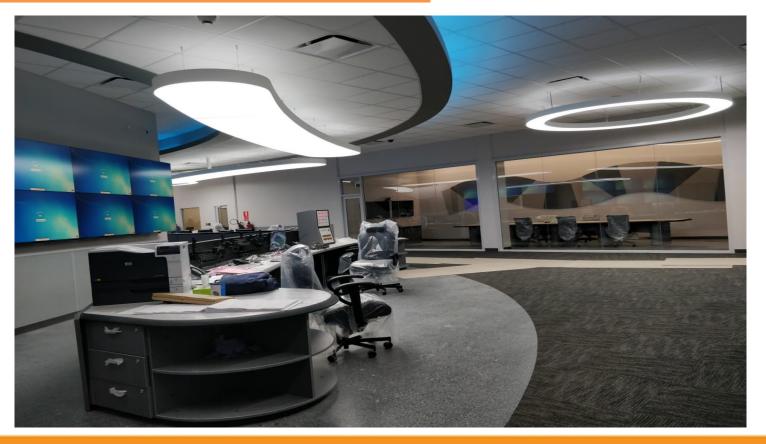








TURN KEY SOLUTIONS





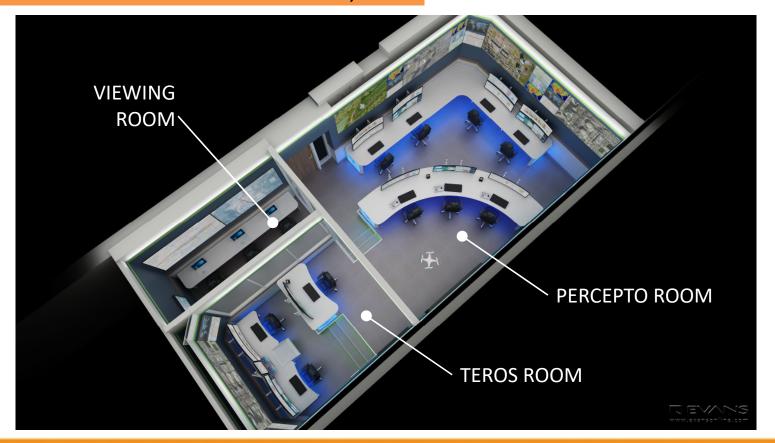
TURN KEY SOLUTIONS





TURN KEY DESIGN SERVICES

FPL Drone Command – West Palm Beach, Florida







TURN KEY DESIGN SERVICES





TURN KEY DESIGN SERVICES

FPL Drone Command – West Palm Beach, Florida

PERCEPTO ROOM



COVE LIGHTING SHOWN IN WHITE LED



COVE LIGHTING SHOWN IN GREEN LED



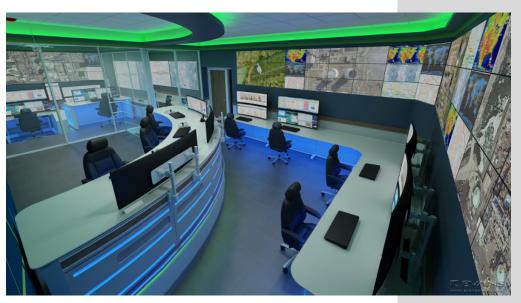
TURN KEY DESIGN SERVICES

FPL Drone Command – West Palm Beach, Florida

PERCEPTO ROOM



COVE LIGHTING SHOWN IN WHITE LED & SWITCHABLE GLASS TURNED ON



COVE LIGHTING SHOWN IN GREEN LED



TURN KEY DESIGN SERVICES

FPL Drone Command – West Palm Beach, Florida

TEROS ROOM



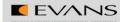
COVE LIGHTING SHOWN IN WHITE LED



COVE LIGHTING SHOWN IN GREEN LED







TKS

