

DOCKETED

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AES – AQMD Update

City Council Study Session

October 21st, 2013



Agenda

1. AES re-licensing/re-building
2. AES visual enhancements
3. AES update
4. SCAQMD fees
5. SCAQMD rule making
6. Potential HB projects

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AES – re-licensing

- Application for Certification at CA Energy Commission (CEC)
 - CEC is permitting authority
 - Local laws, ordinances, regulations and standards to be met or over-ridden
- Preliminary Staff Assessment
 - Delayed several times
 - Public health and air quality delayed
 - Part A published 10/11/13

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AES – re-licensing

- HB staff have worked closely with AES and CEC staff
 - Docketed comment letter on local law, ordinance, regulation and standard (LORS) compliance
 - Informal workshops will be held between PSA and FSA
- SCAQMD is the air quality regulator for this project

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Huntington Beach Energy Project



Huntington Beach Energy Project

- Originally constructed in 1950s
- Units 3 and 4 Retooled in 2002; now retired
- Once through cooling with ocean water eliminated by 2020 – RWQCB



Huntington Beach Energy Project

- Replace existing 28.6 acre facility
 - Six - 120 ft. high stacks
- Two independently operating, gas turbine power blocks
- Each power block
 - Three natural gas fired combustion turbine generators
 - Three supplemental fired heat recovery steam generators
 - One steam turbine generator
 - One air cooled condenser
 - Related ancillary equipment



Visual Resources

- General Plan, Coastal Element, Design Guidelines
 - Currently degraded view
 - Primary view at entrance to City; adjacent to beach resorts; view from HB Pier
 - High quality, innovative, and imaginative design with variations in form to create visual interest
- Direction provided to AES:
 - Enhanced landscaping
 - Paint treatment to blend with surroundings
 - Architectural design to disguise/hide industrial appearance of bulky structures; office building, hotel building, etc.
- AES: Celebrate power plant and create a new landmark
- Solicit DRB and City Council comments regarding Visual Enhancement Options

HUNTINGTON BEACH ENERGY PROJECT

Visual Enhancement Plan

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Existing Beach View



Existing & New - Scale Comparison



New Plant with Landscape Enhancement

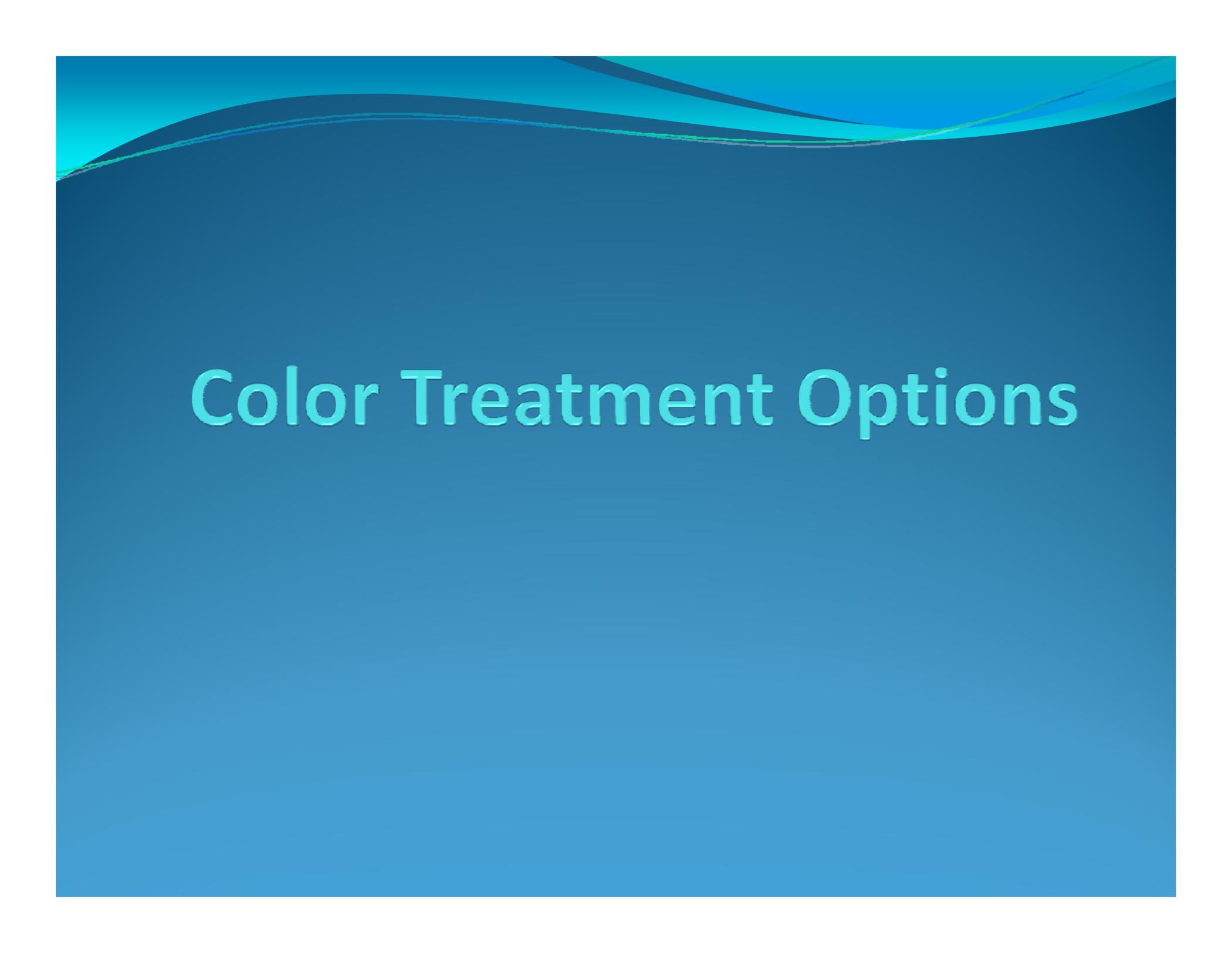


Existing View from Magnolia



New Plant with Landscape Enhancement





Color Treatment Options

Landscape Enhancement & Blue-Tan Color Option



Landscape Enhancement & Blue-Tan Color Option





Surf City USA Treatment Options

Landscape & Surf City USA Option



Landscape & Surf City USA Option





Conceptual Architectural Treatment Options

Landscape & Surf City USA Option with Wire Mesh Screen



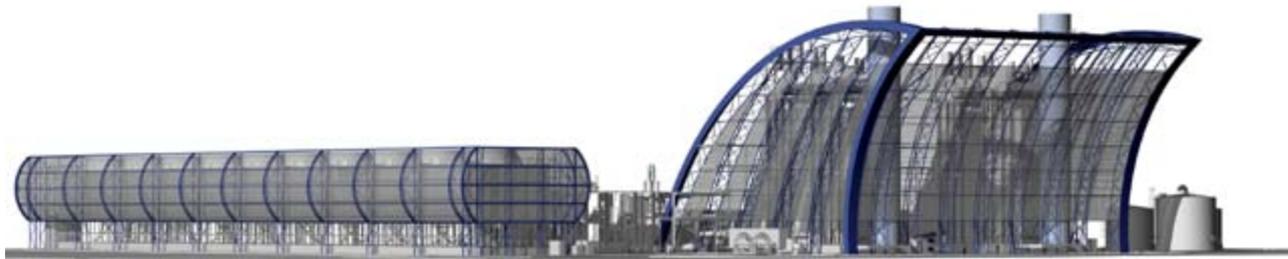
Landscape & Surf City USA Option with Wire Mesh Screen



Design Review Board Comments

- Reduction in mass and scale from the current structures is positive
- Preferred design is a combination of architectural mesh with the classic surfboards
- Improve the architectural mesh design with curve or wave shape
- Incorporate artistic flair into the architectural mesh design
- Increase the playfulness of the design while striving to reduce the bulk
- Include nighttime lighting on the surfboards
- Delete the surfboard from the Magnolia Street side and provide improved architectural mesh only on the power blocks
- Paint treatment only on the air cooled condensers is acceptable
- Consider the maintenance and efficiency needs when redesigning the architectural mesh

Architectural Mesh Example



Next Steps

- Consult with architectural firm to explore additional design options
- Variance process to PC to exceed 50 ft. height limit
- Continue to work with AES on mutually acceptable visual enhancement



SCAQMD

- Governing Board recently adopted Rule 1304.1
- Emphasized use of fees in communities closest to plants
- SCAQMD Governing Board shall approve of all expenditures

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SCAQMD

- \$72,000,000 of new fees
 - Adjusted annually based on inflation and cost of air pollution credits
 - Estimated AES Payments to SCAQMD
 - 2014 - ~\$2.9M
 - 2019 - ~\$35M
 - 2021 - ~\$35M

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SCAQMD

- SCAQMD Governing Board directed staff to draft guidelines that will be used to distribute the monies
- SCAQMD staff holding 1st workshop on Wednesday 10/23/13

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HB resolution

- Resolution identifies Council's commitment to working with SCAQMD to implement local clean air projects
- Provides direction and authority for city staff to engage with SCAQMD staff
 - Project Eligibility
 - Project Funding

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HB preliminary projects

1. LED Street light conversions
2. PCH and Beach Blvd complete streets
3. Fleet conversion to CNG
4. Draft Bike Master Plan improvements
5. Additional solar capacity on city facilities

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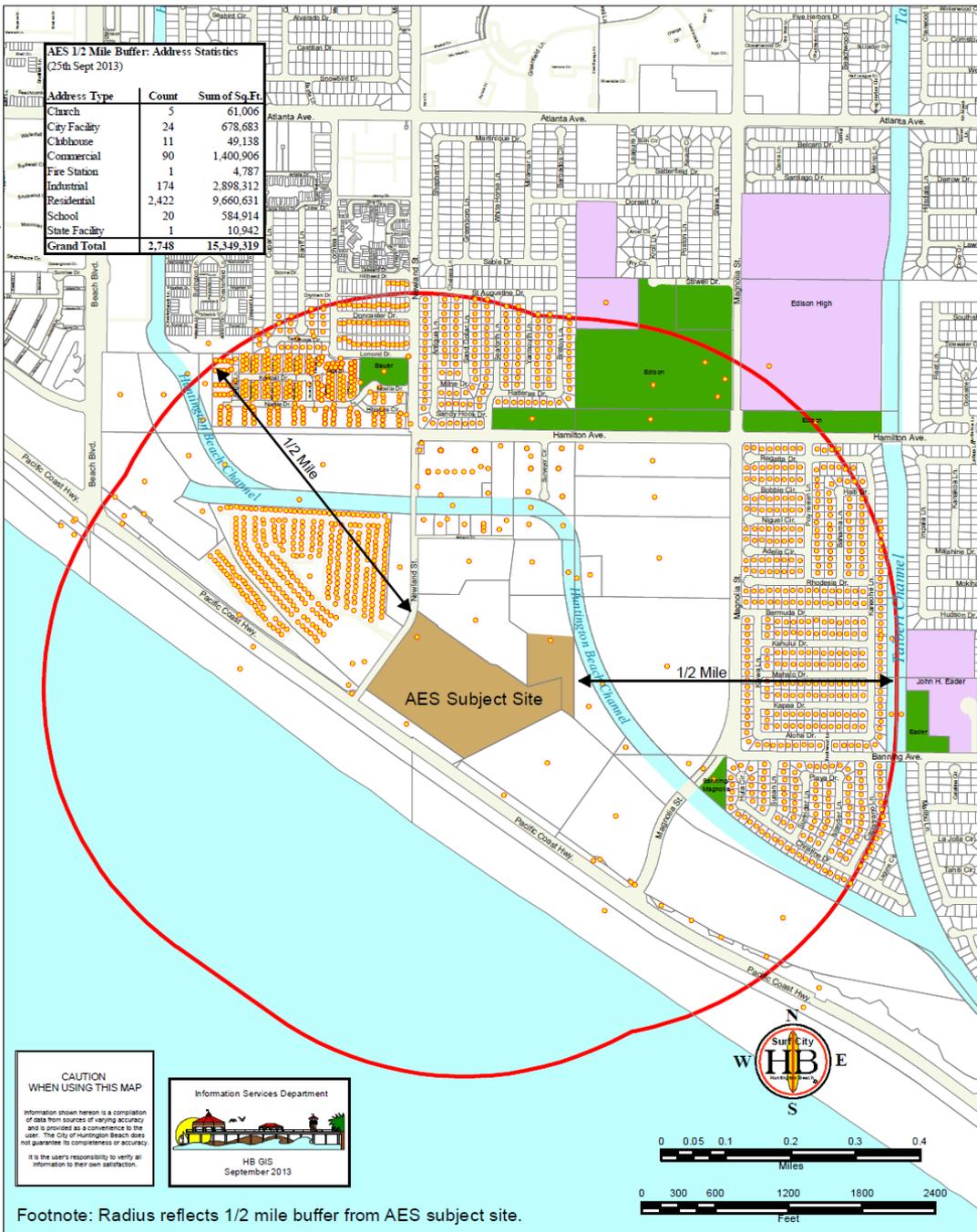
HB preliminary projects

5. Signal synchronization
6. Local Energy Assurance Plan resilience measures
7. Neighborhood Electric Vehicle
8. Multi-family Electric Vehicle charging
9. Homes/businesses nearest the plant upgrades

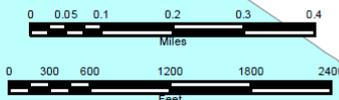
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Rule 1304.1: Air Quality Projects



CAUTION WHEN USING THIS MAP
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Footnote: Radius reflects 1/2 mile buffer from AES subject site.



Neighborhood wide





AES-SCAQMD

○ Questions?

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