# PERSPECTIVE ON IMPACTS AND MITIGATION - CEQA AND OTHER STATE LAWS

#### California Department of Fish and Game Workshop Tuesday, March 4, 2008, Sacramento California

Scott A. Flint

# **Reducing Project Impacts**

#### **Step-wise Process**

- Avoidance Project Siting and Design
- Minimization Turbine Design and Operational
- Compensation Actions to "offset" any remaining impacts: Typically habitat protection, enhancement or restoration
   Monitoring to Ensure Goals are Met.

# **Pre-Permitting Assessment**

Essential Information for Screening Potential Biological Impacts, Impact Assessment, CEQA Determinations

- Species utilizing site and vicinity
- Presence of any listed species or other special status species.
- Magnitude of bird use at site
- Guidelines should discuss assessment methods and protocols and recommend a standardized approach

# State Laws Relating to Wildlife Protection

- California Fish and Game Code § 3503.5
   Falconiformes and Strigiformes
- California Fish and Game Code § 3511
   "Fully Protected Birds"
- California Fish and Game Code § 3513 MTBA
- California Fish and Game Code § 3800 Non-Game Birds



#### Fully-Protected Birds (F&G Code §3511)

American peregrine falcon Brown pelican California black rail California clapper rail California condor California least tern Golden eagle Greater sandhill crane Light-footed clapper rail Southern bald eagle Trumpeter swan White-tailed kite Yuma clapper

## Federal Laws Relating to Wildlife Protection

Federal Endangered Species Act (FESA)

Migratory Bird Treaty Act (MTBA)

Bald Eagle Protection Act

### **Use of Compensatory Mitigation**

 CEQA – Mitigate significant impacts to a level of "less than significant"

CESA – Achieve "full mitigation standard"

Compliance with State Wildlife Laws – Compensate or "offset" impacts that remain after avoidance and minimization to achieve "no net loss"

# DFG Role - CEQA

Consult with lead agencies on projects as required.

- Develop and recommend mitigation measures as appropriate for the resources with its purview
- Provide public comment and testimony during the CEQA Process
- Responsible Agency if additional CDFG approvals are required

# DFG Role - CESA

Lead Permitting Agency for "Incidental Take" of State-listed Species

Assessment of "Jeopardy"

 Projects Effects must be "Minimized and Fully Mitigated"

CEQA Compliance for Permit Issuance –
 Responsible Agency
 State Lead Agency

## DFG Role - Other Wildlife Laws

State Trustee for Fish, Wildlife and Their Habitats

- Preserve, Restore, Protect and Enhance the State's wildlife resources to maintain their ecological values and to ensure continued use and enjoyment by the public
- Public Education, Scientific Expertise
- Work Cooperatively with Project Proponents to reduce and/or offset project effects

Enforce Violations of State Law

# **Post-Project Monitoring**

Operational Monitoring is Essential to:

- Validate and Confirm Impact Estimates
- Evaluate Success of Avoidance and Minimization Measures
- Provide Feedback to Operational Planning

 Monitoring of Compensatory Mitigation also Required to Evaluate Success

# Guidelines

- Discuss the Framework of State Law to be Considered
- Provide Recommendations for Site Assessment Methodology, both Pre- and Post-Project
- Identify the Types of Impacts that Should be Assessed and Provide a Decision Framework and/or Tools for Performing the Assessments
- Identify Potential Options for Compensatory Mitigation that Ensure Bird and Bat Protections and a Decision Framework for Application

# TYPES OF IMPACTS TO CONSIDER FOR PROJECT SITING

## **Direct Impacts**

Those effects that are caused by a project and occur at the same time and place.

Turbine Effects
Guy Wires and other Infrastructure
Lighting
Weather events

# Indirect or Secondary Impacts

- Those effects that are reasonably foreseeable and caused by a project but occur at a different time or place.
  - Local Disturbance
  - Habitat Displacement
  - Site Avoidance
  - Disruption to Migratory Patterns

# **Cumulative Impacts**

Those which refer two or more individual effects which when considered together, are considerable or which compound or increase or decrease other environmental impacts

An assessment of a project's incremental effects combined with the effects of other projects

#### **Cumulative Impact Assessment**

- Determination of risk to species as a whole or over affected geographical region, inclusive of the project site
- Evaluation of threat to local breeding populations
- A listing and review or analysis of other wind generation projects, as well as other projects that may result in the loss of habitat or collision fatalities

### **Cumulative Impacts**

 An identification of the extent of habitat that may be lost by the combined projects

An evaluation of the effect that the cumulative loss might have on local or regional species populations or population as a whole

# COMPENSATORY MITIGATION

# Reducing Project Impacts

Avoidance
 Minimization
 Compensation - Actions to "offset" any remaining impacts: Typically habitat protection, enhancement or restoration
 Monitoring

#### **Use of Compensatory Mitigation**

 CEQA – Mitigate significant impacts to a level of "less than significant"

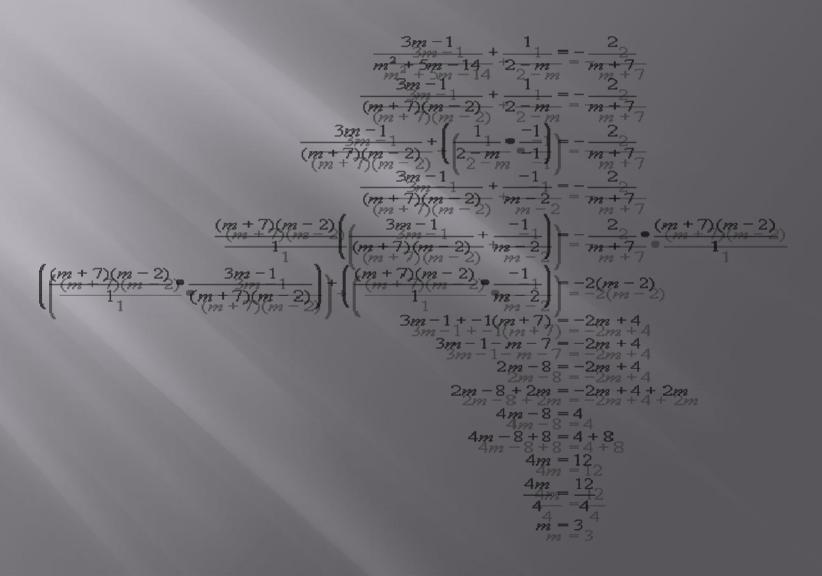
CESA – Achieve "full mitigation standard"

Compliance with State Wildlife Laws – Compensate or "offset" impacts that remain after avoidance and minimization to achieve "no net loss"

#### **Conservation Biology Principles**

- Conserve Larger, Contiguous Habitat Areas, Multi-species Focus
- Conserve and Restore Habitat Connectivity Corridors
- Conserve and Maintain Associated Ecological Systems
- Conserve Population Structures and Genetics

#### Determination of Compensation Requirements



#### Determination of Compensation Requirements

- Biological Basis Replace lost individuals into the population
  - enhance reproductive capacity
  - enhance or expand breeding areas and opportunities
  - enhance other critical habitat areas
  - Remove or control other population stressors

# **Project/Compensation Nexus**

- Birds per Megawatt
- Rotor-swept Area
- Aerial Extent of Rotor-swept Area
- Entire site rendered unsuitable
- WAG

## **Compensation Approaches**

Conservation of Essential Habitat

Nest Trees
Breeding Areas
Wintering or Roost Areas
Foraging Habitat
Migratory Rest Areas
Habitat Linkages

# **Compensation** Mechanisms

Permanent Conservation Mechanisms

Mitigation BanksPurchase Fee TitleConservation Easements

# **Compensation Approaches**

#### Habitat Restoration

- Assumption that we can create habitat, restore functions
- Assumption that we can increase carrying capacity
- Disagreement on Success
- Stringent Monitoring Requirements

# **Compensation Mechanisms**

#### Habitat Restoration

- Restore non-functional areas
- Conserved areas to increase carrying capacity

Habitat EnhancementsExotic Species Removal

### **Compensation – Other Ideas**

Industry "Habitat Bank" Consortium

 Combination Approaches involving Research Contributions

□ "Green" Allowance

Decommissioning of Orphaned Facilities

#### **Other Considerations**

Goal is Preservation in Perpetuity

 Long-Term Management funding for Mitigation Lands

Use of third-party Land Managers

# Guidelines

 Outline Decision Framework For Compensatory Mitigation Decisions

 Identify Potential Options for Compensatory Mitigation that Ensure Bird and Bat Protections

 Recommend Mitigation Monitoring Scenarios