



**Appendix S. 2011 State Hazard Mitigation Plan  
STAPLEE**



## 5.5 Evaluating Alternative Mitigation Actions

The New Jersey Hazard Mitigation Plan uses the STAPLEE to evaluate and apply evaluation criteria. STAPLEE enables a systematic approach that considers, in a systematic way, the Social, Technical, Administrative, Political, Economic and Environmental opportunities and constraints of implementing a particular mitigation action.

The areas of discussion included in STAPLEE review cover:

S - Social	<ul style="list-style-type: none"> <li>Community acceptance (acceptance)</li> </ul>	<ul style="list-style-type: none"> <li>Adverse concerns on a segment of the population (concern)</li> </ul>
T - Technical	<ul style="list-style-type: none"> <li>Technical feasibility (feasible)</li> <li>Long term solution (long-term)</li> </ul>	<ul style="list-style-type: none"> <li>Secondary impacts (impact)</li> </ul>
A - Administrative	<ul style="list-style-type: none"> <li>Staffing sufficient in number and training (staff)</li> <li>Funding allocated (funding)</li> </ul>	<ul style="list-style-type: none"> <li>Maintenance and operation (maintenance)</li> </ul>
P - Political	<ul style="list-style-type: none"> <li>Political support (support)</li> <li>Local plan champion or plan proponent (champion)</li> </ul>	<ul style="list-style-type: none"> <li>Public support (public)</li> </ul>
L - Legal	<ul style="list-style-type: none"> <li>State authority (state)</li> <li>Local authority (local)</li> </ul>	<ul style="list-style-type: none"> <li>Action potentially subject to legal challenge (challenge)</li> </ul>
E <sup>1</sup> - Economic	<ul style="list-style-type: none"> <li>Benefit of mitigation (benefit)</li> <li>Cost of mitigation action (cost)</li> </ul>	<ul style="list-style-type: none"> <li>Contributes to economic goals (contributes)</li> <li>Outside funding required (funding)</li> </ul>
E <sup>2</sup> - Environmental	<ul style="list-style-type: none"> <li>Affects land and water (land)</li> <li>Affects endangered species (species)</li> <li>Affects hazardous waste materials and waste sites (waste)</li> </ul>	<ul style="list-style-type: none"> <li>Consistent with environmental goals (ecological)</li> <li>Consistent with federal laws (law)</li> </ul>



Table 5.5-1  
STAPLEE Review

STAPLEE CRITERIA		S		T			A			P			L			E <sup>1</sup>				E <sup>2</sup>				
		Acceptance	Concern	Feasible	Long-Term	Impacts	Staffing	Funding Allocation	Maintenance	Support	Champion	Public	State	Local	Challenge	Benefit	Cost	Contributes	Funding	Land	Species	Waste Sites	Ecological	Law
Considerations For Alternative Actions	LEGEND: + Presents a positive impact - Presents a negative impact N Not Applicable																							
122	Encourage adoption of regulations that include exemptions to life safety/property protection mitigation efforts in tightly regulated environmental laws.	-	-	-	-	-	-	-	+	+	+	-	-	N	+	-	-	-	-	N	N	N	-	-
132	Encourage college/university participation	-	-	-	-	-	-	-	+	+	+	-	-	N	+	-	-	-	-	N	N	N	-	-
141	Integrate NFIP standards into the uniform construction codes utilized by the State.	-	-	-	-	-	-	+	+	-	-	-	N	N	-	-	+	-	-	-	-	-	-	
154	Ensure Incident Command System use, qualifications, and standards during all incident response and event planning.	-	-	-	-	-	+	+	+	-	N	-	-	-	N	-	+	N	+	N	N	N	-	-
211	Establish comprehensive GIS-based repository for data on critical State facilities.	-	N	-	N	-	+	+	+	-	N	N	-	-	-	-	+	-	-	N	N	N	-	-
212	Prioritize structural and nonstructural retrofits for critical State owned facilities based on their vulnerability to natural hazards.	-	N	-	N	-	+	+	+	-	N	-	-	-	-	-	+	-	-	N	N	N	-	-
215	Conduct a survey of State agencies as the basis for identifying their most critical facilities, and use this as the basis for prioritizing vulnerability assessments and (subsequently) mitigation grant funds.	-	N	-	N	N	-	N	N	-	N	N	-	N	-	N	+	N	-	N	N	N	-	-
221	Inventory non-state owned critical assets that are vulnerable to natural hazards.	-	-	-	-	-	-	+	+	-	-	-	N	N	-	-	+	-	-	-	N	N	-	-
224	Establish an annual mitigation meeting	-	-	-	-	-	+	N	N	-	N	-	-	N	N	-	-	-	-	N	N	N	N	N
232	Develop and implement a detailed severe repetitive loss mitigation strategy that will qualify the State for 90-10 cost share under the FEMA SRL program.	-	-	-	-	-	+	N	N	-	N	-	-	N	N	-	-	-	-	N	N	N	N	N
240	Encourage greater CRS participation	-	-	-	-	-	+	+	N	+	N	-	-	-	N	-	+	N	+	N	N	N	N	-
241	Encourage regional authorities to participate in NFIP and CRS	-	-	-	-	-	+	+	N	+	N	-	-	-	N	-	+	N	+	N	N	N	N	-
251	Use HAZUS to identify local or regional police, fire, hospital and emergency operations centers that are in FEMA-designated V and VE flood zones.	-	N	-	N	-	+	-	N	-	N	-	-	N	-	-	-	N	-	N	N	N	N	-

Section 5 - Mitigation Strategy



STAPLEE CRITERIA		S		T			A			P			L			E <sup>1</sup>				E <sup>2</sup>				
Considerations ➔ For Alternative Actions ➔	LEGEND: + Presents a positive impact - Presents a negative impact N Not Applicable	Acceptance	Concern	Feasible	Long-Term	Impacts	Staffing	Funding Allocation	Maintenance	Support	Champion	Public	State	Local	Challenge	Benefit	Cost	Contributes	Funding	Land	Species	Waste Sites	Ecological	Law
		252 Undertake detailed vulnerability assessments and develop mitigation options for critical facilities in V and VE zones.	-	-	-	-	-	-	+	+	N	+	N	-	-	N	N	-	+	-	+	N	N	N
253 Initiate mitigation projects to reduce risks to critical facilities located in V and VE zones	-	-	-	-	-	-	+	+	N	+	N	-	-	N	N	-	+	-	+	N	N	N	N	-
314 Synthesize findings of local plans	-	-	-	-	-	-	-	+	+	-	-	-	-	-	N	-	-	-	-	N	N	N	N	-
331 Develop a cadre of supplemental staff to assist NJOEM with education of affected communities, project assessment and development of mitigation projects.	-	-	-	-	-	-	-	+	+	-	-	-	-	-	N	-	-	-	-	N	N	N	N	-
341 Conduct community outreach, workshops and training opportunities to promote development of PDM plans.	-	-	-	-	-	-	-	+	+	-	-	-	-	N	N	-	+	-	+	-	N	N	-	-
342 Increase NJOEM staffing in areas of planning, engineering and management.	-	-	-	-	-	-	-	+	+	-	-	-	-	N	N	-	+	-	+	-	N	N	-	-
343 Revise the SHMP and post it on the web so it is more useable to the public and to local governments developing local mitigation plans.	-	-	-	+	-	N	N	-	-	N	-	-	-	N	N	-	-	-	N	-	-	-	-	-
344 Develop and maintain local government mitigation planning assistance/coordination web page.	-	-	-	-	-	+	+	+	-	N	-	-	-	N	N	-	-	-	+	N	N	N	-	-
346 Greater county involvement	-	-	-	+	-	+	+	N	-	N	-	-	-	N	N	-	-	N	-	N	N	N	N	-
361 Encourage the NJ League of Municipalities to become more involved in mitigation activities.	-	-	-	+	-	+	+	N	-	N	-	-	-	N	N	-	-	N	-	N	N	N	N	-
362 Encourage non-participating locals	-	-	-	-	-	-	+	+	-	-	-	-	-	N	N	-	+	-	+	-	N	N	-	-
411 Compile a GIS-based inventory of critical facilities Statewide	-	N	-	+	-	+	+	N	-	N	-	-	-	N	-	-	+	+	+	N	N	-	-	-
412 Make web site more user friendly	-	N	-	+	-	+	+	N	-	N	-	-	-	N	-	-	+	+	+	N	N	-	-	-
451 Using a prioritized list of State facilities, conduct a survey of wind vulnerabilities, based on criteria such as age of the facility, value of operations, proximity to the coast, etc.	-	-	-	N	-	+	+	N	-	-	N	-	-	N	-	-	+	N	-	N	N	N	-	-
471 Provide grants, planning tools, training and technical assistance to increase the number of public and private sector hazard mitigation plans and initiatives, especially for multi-jurisdiction districts.	-	-	-	N	-	+	-	N	-	-	-	-	-	-	-	-	+	N	+	N	N	N	-	-
483 Identify and describe existing plans addressing hazard mitigation issues for review and integration into the SHMP.	-	N	-	+	-	-	N	N	-	N	-	-	-	-	-	-	-	+	-	N	N	N	-	-

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		522 Publicize mitigation success stories		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Section 5 - Mitigation Strategy