

Summary of Key Issues and Review of Alternatives

Chapter 14 Safety

This Element identifies hazards and hazard abatement provisions to guide local land use decisions.

Chapter 14 Safety Element				
Key Topics and Issues	Plan Update Approach (Alternative B)	Existing Framework Plan (Alternative D)	Alternative A	Alternative C
<p>Minimizing Loss of Life and Property The Humboldt County environment contains areas of significant natural hazard as well as airport and industrial hazards.</p> <p>How can the Plan better identify and reduce exposure to hazards as well as minimize risks to life and property?</p>	<p>The proposed Plan contains policies to reduce exposure to geologic, flood, fire, airport safety, and industrial hazards. Risk is managed primarily through the use of land use designations (S-P1-5).</p> <p>Because the Cape Mendocino area has the highest concentration of earthquakes in the U.S., the Plan identifies a very high Richter scale magnitude to be used in risk assessment and emergency planning (S-P8).</p> <p>To minimize wildland fire risk, the Plan requires collaborative planning with fire agencies (S-P12) and new development</p>	<p>The Framework General Plan contains the same policy areas but uses less prescriptive language.</p>	<p>Alternative A contains additional policies and standards to prohibit development within certain hazardous areas, such as flood prone areas and areas of geologic instability</p>	<p>Alternative C is similar to the Proposed Plan, but does not add additional prescriptive requirements, such as those for subdivision design in state responsibility areas.</p>



Chapter 14 Safety Element				
Key Topics and Issues	Plan Update Approach (Alternative B)	Existing Framework Plan (Alternative D)	Alternative A	Alternative C
	conformance with standards (S-P13 through P16),			
<p>Response Preparedness Emergency management planning can effectively reduce risk.</p> <p>What should the County's role be in emergency response planning?</p>	Emergency management (S-P29) and pre-disaster planning (S-P27, P28 and P30) are a central focus of the Safety Element.	The Framework General Plan contains limited references to preparedness and emergency management planning	Alternative A contains the same preparedness and emergency management planning policies as the Proposed Plan.	Alternative C contains the same preparedness and emergency management planning policies as the Proposed Plan.

Plan Alternatives Comparison Chart


Chapter 14 Safety Element

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R, M, D
				14.4 Goals		
A	B	C		S-G1. Minimize Loss. Communities designed and built to minimize the potential for loss of life and property resulting from natural and manmade hazards.		
				COMMENTS:		
A	B	C		S-G2. Prevent Unnecessary Exposure. Areas of geologic instability, floodplains, tsunami run-up areas, high risk wildland fire areas, and airport areas planned and conditioned to prevent unnecessary exposure of people and property to risks of damage or injury.		
				COMMENTS:		
A	B	C		S-G3. Natural Drainage and Watershed Protection. Natural drainage channels and watersheds that are managed to minimize peak flows in order to reduce the severity and frequency of flooding.		
				COMMENTS:		


Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C	S-G4. Fire Risk and Loss. Development designed to reduce the risk of structural and wildland fires supported by fire protection services that minimize the potential for loss of life, property, and natural resources.		
			COMMENTS:		
A	B	C	S-G5. Airport Safety. Land use and development in the vicinity of airports that minimizes exposure to unsafe levels of noise and aircraft hazards consistent with the applicable Airport Land Use Compatibility Plan.		
			COMMENTS:		
A	B	C	S-G6. Industrial Safety. Well managed industrial development regulated by performance standards and supported by land use plans that minimizes risk and exposure of the population to industrial hazards.		
			COMMENTS:		
A	B	C	S-G7. Response Preparedness. Interagency readiness and capacity to respond to emergencies to reduce loss of life and property, support the population, and facilitate recovery.		
			COMMENTS:		
A	B	C	S-G8. Cascadia Event Preparation. A community prepared to withstand and recover from a high magnitude, long-duration local earthquake along the Cascadia subduction zone.		
			COMMENTS:		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
		D	3290.1. To reduce public exposure to natural and manmade hazards.		
		D	3290.2. To ensure the continuity of vital services and functions.		
		D	3290.3. To educate the community.		
			14.4 Policies		
			General		
A	B	C	S-P1. Reduce the Potential for Loss. Plan land uses and regulate new development to reduce the potential for loss of life, injury, property damage, and economic and social dislocations resulting from natural and manmade hazards, including but not limited to, steep slopes, unstable soils areas, active earthquake faults, wildland fire risk areas, airport influence areas, flood plains, and tsunami run-up areas.	Prog, QJ, Min, S1-16, 	
			COMMENTS:		
A	B	C	S-P2. Coastal Zone. Development within the Coastal Zone shall minimize risks to life and property in areas of high geologic, flood, and fire hazard; assure stability and structural integrity; and neither create nor contribute significantly to erosion, geologic instability, or destruction of the site or surrounding areas or in any way require the construction of protective devices that would substantially alter natural landforms along bluffs and cliffs.	Prog, QJ, Min, S S1-16, 	
			COMMENTS:		


Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C		S-P3. Hazard Education. Encourage the education of the community regarding the nature and extent of hazards and community disaster preparation and response.	Prog, IM2	
				COMMENTS:		
A	B	C		S-P4. Disaster Response Plans. The County shall prepare and maintain current disaster response plans. The County shall support and participate in the preparation of disaster response plans by community organizations, companies, cities, and state and federal agencies.	Prog, IM6-9	
				COMMENTS:		
A	B	C		S-P5. Hazard Mitigation. The County shall actively seek opportunities to reduce <u>the impacts of disasters risks</u> through <u>pre-disaster planning and hazard mitigation planning.</u>	Prog, IM6-9 Changed wording for clarity.	
				COMMENTS:		


Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
D				<p>3291.1 General A. Regulate land use to ensure that development in potentially hazardous areas will not preclude preserving and promoting public safety. Potentially hazardous areas include, but are not limited to, steep slopes, unstable soils areas, on active earthquake fault lines, in wildland fire hazard areas, in airport flight path zones, and in flood plains and tsunami runup areas. B. Development within the coastal zone shall minimize risks to life and property in areas of high geologic, flood and fire hazard, assure stability and structural integrity and neither create nor contribute significantly to erosion, geologic instability or destruction of the site or surrounding areas or in any way require the construction of protective devices that would substantially alter natural landforms along bluffs and cliffs. C. Encourage the education of the community regarding the nature and extent of hazards. D. Continue to provide for the maintenance and upgrading of disaster response plans.</p>		
				COMMENTS:		
				Geologic/Seismic		
A	B	C		<p>S-P6. Structural Hazards. The County shall protect life and property by applying and enforcing state adopted building codes and Alquist-Priolo requirements to new construction. The County shall assist property owners in making upgrades to existing structures to mitigate structural hazards.</p>	Prog, QJ, Min, S1-4, IM10 	
				COMMENTS:		
A	B			<p>S-P7. Improved Information. Encourage and support more detailed scientific analysis of Cascadia Subduction Zone earthquake risks, probabilities, and anticipated effects.</p>	lss	

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R, M, D
				COMMENTS:		
A	B			S-P8. Preparation. The potential for a local earthquake in excess of magnitude 8.4 (Richter scale) shall be considered in disaster planning, risk assessment, and pre-disaster mitigation efforts.	Prog	
				COMMENTS:		
A	B	C		S-P9. Cascadia Event Disaster Response. The County shall maintain readiness for a comprehensive response to a major earthquake consistent with the nationwide emergency management hierarchy and the adopted Emergency Response Plan for the Humboldt Operational Area.	Prog, IM8-9	
				COMMENTS:		
A				S-PX1. Site Suitability. New development may be approved only if it can be demonstrated that the proposed development will neither create nor significantly contribute to geologic instability or geologic hazards.		
				COMMENTS:		
			D	3291.2. Geologic A. Provide for the identification and evaluation of existing structural hazards. B. Provide for more detailed scientific analysis of natural hazards in the County. C. Provide for implementation and periodic review of the Seismic Safety and Public Safety Element		
				Flooding		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C	<p>S-P10. Federal Flood Insurance Program. The County shall participate in the Federal Flood Insurance Program and maintain Flood Damage Prevention regulations in the County Code to regulate land uses in flood hazard areas in order to minimize loss of life and property and public flood-related expense.</p>	<p>Prog, Language adds prevention regulations</p>	
			<p>COMMENTS:</p>		
A	B	C	<p>S-P11. Flood Plains. Agricultural lands that are in mapped floodplains shall be retained for use in agriculture.</p>	<p>QJ, Min, S5-8, IM3 </p>	
			<p>COMMENTS:</p>		
A			<p>S-PX2. Prohibition of Residential Subdivisions within Floodplain. The creation of new parcels that increase residential density wholly within the floodplain as identified in the most recent FEMA flood insurance rate maps or dam failure inundation areas as delineated in dam failure emergency response plans shall be prohibited.</p>		
			<p>COMMENTS:</p>		


Plan Alternative		Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	<p>S-PX3. Construction Within Special Flood Hazard Areas . Construction within a floodplain identified as the 100-Year Flood Boundary on FEMA's Flood Insurance Rate Map:</p> <p><u>A. Require elevation of the habitable portions of residential structures to be 1-foot above the Base Flood Elevation, (100-year flood level) where constructed within a floodplain.</u></p> <p><u>B. Require flood-proofing or elevation of non-residential structures constructed within the 100-year floodplain to 1-foot above the Base Flood Elevation .</u></p> <p><u>C. Require that new foundations constructed within the 100-year floodplain not cause floodwater displacement except where necessary for flood-proofing.</u></p> <p><u>D. Substantial alteration and repair of buildings located in the 100-year floodplain shall require mitigation measures, including but not limited to raising lowest floor elevations to one-foot above the 100-year flood level, to reduce flood impacts on the development to a less-than-significant level.</u></p> <p><u>E. Septic systems shall be designed in a manner as to prevent instability and dislodgement during flood events.</u></p> <p><u>F. Fill shall only be allowed if it can be demonstrated that the fill will not have cumulative adverse impacts on or off site. A net increase of fill shall not be allowed in the floodway.</u></p>	<p>NEW POLICY! Required to be a part of the FEMA FLOOD INSURANCE Program. Currently contained in Humboldt County Code Section 335-1-5</p>	
		COMMENTS:		
A		<p>S-PX4. Development on or Adjacent to Coastal Bluffs and Beaches. Allow development in areas immediately adjacent to coastal bluffs and beaches only if it can be demonstrated by a certified engineering geologist that wave action, storm swell, and tsunami inundation are not a hazard to the proposed development or that such hazard can be adequately mitigated.</p>		
		COMMENTS:		



Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
			D	<p>3291.3. Flood A. The County shall participate in the Federal Flood Insurance Program to regulate land uses in flood hazard areas in order to minimize loss of life and property, and in order to minimize public flood-related expense. B. Agricultural lands which are in flood plain areas shall be retained for use in agriculture.</p>		
				Fire Hazards		
A	B	C		<p>S-P12. Joint Planning and Implementation. The County shall plan collaboratively with local fire agencies and companies, CAL FIRE, and federal fire organizations on countywide fire prevention and response strategies. Implementation shall be coordinated to maximize efficiency and ensure efforts are complimentary.</p>	Prog, IM6-7	
				COMMENTS:		
A	B			<p>S-P13. Subdivision Design in State Responsibility Areas (SRA) High and Very High Fire Hazard Zones. Subdivisions within <u>State Responsibility Area (SRA)</u> high and very high fire severity classification areas shall explicitly consider designs and layout to reduce the risks of wildfire hazards and improve defensibility; for example, <u>clustering of lots in defensible areas, irrigated green belts, water storage, perimeter roads, roadway layout and design, slope development constraints, fuel modification plans, and vegetation setbacks.</u></p>	QJ, Min  Changed wording to focus the application of the policy	
				COMMENTS		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C	S-P14. Adequate Water Supplies in State Responsibility Areas (SRA). Proposed development within SRA high and very high fire severity classification areas shall be serviced by adequate water supplies for fire protection consistent with state or local fire protection agency requirements.	No state or local standards currently exists for high and very high severity zones.	
			COMMENTS:		
A	B	C	S-P15. Conformance with State Responsibility Areas (SRA) Fire Safe Regulations. Development shall conform to Humboldt County SRA Fire Safe Regulations.	QJ, Min, S9 	
			COMMENTS:		
A	B		S-P16. Level-of-Service Standards. <u>Support the development of a level of service standard by the Humboldt County Fire Chief's Association for all emergency response services (fire, EMS, HazMat, and rescue) in the county, and make such information such standards public so that landowners and residents understand the distribution and quality of service.</u>	Prog, IM6 Changed Wording to clarify intent	
			COMMENTS:		
A	B		S-P17. Fire District Boundary Maps. The County shall maintain and publish fire district boundary maps.	Prog, IM7	
			COMMENTS:		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B		S-P18. Hazardous Fuel Reduction Prescribed Burning. Encourage land management activities that result in the use of prescribed burning as a management tool for the reduction of hazardous fuels reduction and also support timber management purposes, livestock production, and the enhancement of wildlife habitat, through the use of prescribed burning, mechanical methods, biomass utilization, and animal grazing.	Iss Broadens application of the policy	
			COMMENTS:		
A	B	C	S-P19. Fire Safe Prevention Education. Expand fire prevention and fire safety mitigation education capacity in the county, to include fire risks and methods of prevention.	Prog, IM2, IM6 "Fire Safe" includes mitigation and prevention	
			COMMENTS:		
A	B	C	S-P20. Fire Service Organization and Ratings Provider Support. Make information available to fire service organizations providers about creating districts, increasing organizational capacity, developing funding streams, and improving Insurance Services Office (ISO) ratings for reduced insurance costs.	Prog, IM6-7 More accurate title	
			COMMENTS:		
A			S-PX5 Protection of Native Plants. The County shall promote fire-safe practices that maximize conservation of native plants and native plant ecosystems, while protecting citizens, firefighters, and property.		

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R, M, D
				COMMENTS:		
A				S-PX6 Alternative Owner Builder High and Very High Fire Severity Zones. Alternative Owner Builder (AOB) permits for construction of new dwellings in high and very high fire severity zones shall be required to comply with the materials and construction methods for exterior wildfire exposures of the California Residential Code (CRC) and chapter 7-A of the California Building Code (CBC) as amended.		
				COMMENTS:		
			D	<p>3291.4. Fire</p> <p>A. Humboldt County should encourage the use of prescribed burning as a management tool for timber management purposes, livestock production, and enhancement of wildlife habitat.</p> <p>B. Use the appropriate sections of the California Department of Forestry "Fire Safe Guides" as guidelines for review of residential development in rural areas, to be applied consistent with other plan policies.</p> <p>C. Actively support and pursue the implementation recommendations of the Humboldt County Fire Chief's Association (see Fire Hazards Implementation, Section 5-3200.3).</p>		
				Airport Safety		
A	B	C		S-P21. Development Compatibility. Airport Land Use Compatibility Plans (ALUCP) shall be prepared to define planning areas around airports and establish land use policies and standards appropriate for the public safety and protection of airport operations.	Prog	
				COMMENTS:		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C	S-P22. Airport Land Use Compatibility Criteria. Regulate and plan land use around airports according to the Airport/Land Use Safety Compatibility Criteria (Table 14-A, as amended).	QJ, Min, S14 	
			COMMENTS:		
	B	C	S-P23. Obstruction-free Approach Surfaces. The maintenance of obstruction-free approach surfaces at all airports identified on the Approach and Clear Zone plans consistent with FAA requirements shall be principally permitted.	QJ, Min	
			COMMENTS:		
A	B	C	S-P24. Airport Safety Combining Zone. Utilize an airport safety combining zone within airport influence areas to ensure consistent application of the Airport Land Use Compatibility Criteria matrix.	QJ, Min, S14	
			COMMENTS:		
		D	3291.6. Airport Safety A. The County should establish the maintenance of obstruction- free approach surfaces at all airports as a high-priority project, annually monitoring the status of potential obstructions identified on the Approach and Clear Zone Plans. B. The County's current Airport Approach Zone Building Height Regulations (County Code Section 333) should be revised to bring the standard into conformance with Part 77 of the Federal Aviation Regulations. (A recommended ordinance has been prepared by the Consultant and submitted to the County as a separate task in the Master Plan Study). C. Regulate and plan land use around airports according to the Airport Land Use Compatibility criteria matrix. D. Specific land use zoning, appropriate for the areas around the County's airports, should be adopted as soon as practical.		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
			E. Ensure that future development within the community is compatible with the airport and its associated noise and hazard nuisances.		
			Industrial Hazards		
A	B		<p>S-P25. Hazardous Industrial Development. Hazardous industrial development may be permitted when either:</p> <ul style="list-style-type: none"> A. It includes mitigation measures sufficient to offset increased risks to adjacent human populations; or, B. Increased risks to adjacent human populations have been adequately mitigated by approved disaster response plans. (See definition of "hazardous industrial development" in Standards Section below.) 	<p>QJ, Min, S15-16</p> 	
			COMMENTS:		
	B		<p>S-P26. Hazardous Waste. Encourage new development that may generate significant quantities of hazardous wastes to provide a plan for disposal that emphasizes on-site treatment, neutralization, and recycling.</p>	<p>QJ, Min, S15</p> 	
			COMMENTS:		
A			<p>S-P26. Hazardous Waste. Eliminate the use of toxic materials within Humboldt County where possible, and require the reduction, recycling, and reuse of such materials, to the greatest extent possible, where complete elimination of their use is not feasible. Require new development which may generate significant quantities of hazardous wastes to provide a plan for disposal which emphasizes on-site treatment, neutralization, and recycling.</p>		

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
				COMMENTS:		
			D	<p>3291.7. Industrial Hazards A. Hazardous industrial development shall be permitted when either: 1) It includes mitigation measures sufficient to offset increased risks to adjacent human populations; or, 2) Increased risks to adjacent human populations have been adequately mitigated by approved disaster response plans. (See definition of "hazardous industrial development" in Standards section.) B. Require new development which may generate significant quantities of hazardous wastes to provide a plan for disposal which emphasizes on-site treatment, neutralization, and recycling.</p>		
				Emergency Management		
A	B	C		S-P27. Pre-disaster Planning and Mitigation. The County shall proactively reduce known hazards through pre-disaster planning and mitigation efforts.	Prog, S17-18, IM18-19	
				COMMENTS:		
A	B	C		S-P28. Hazard Mitigation Plan. The County incorporates by reference into this Safety Element the Humboldt Operational Area Hazard Mitigation Plan for unincorporated areas (Volume I and the Humboldt County Annex and the Appendices of Volume II) as adopted and amended by the Board of Supervisors, in accordance with the Federal Disaster Mitigation Act of 2000 and California Government Code, Section 65302.6.	Prog, IM18-19	

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				COMMENTS:		
A	B	C		S-P29. Emergency Operations Capability. The County shall maintain the ability to implement the nationwide National Incident Management System (NIMS), statewide Standardized Emergency Management System (SEMS), activate the Operational Area Emergency Operations Center (EOC), coordinate responders, and implement other tactical response measures as required. Emergency operations shall conform to the Humboldt County Operational Area Emergency Operations Plan.	Prog	
				COMMENTS:		
A	B	C		S-P30. Tsunami Ready Program. The County shall support efforts of low-lying coastal communities to attain TsunamiReady™ status, as developed by the National Weather Service.	Prog	
				COMMENTS:		
				14.5 Standards		
				Geologic		
A	B	C		S-S1. Geologic Report Requirements. Site specific reports addressing geologic hazards and geologic conditions shall be required as part of the review of discretionary development and ministerial permits. Geologic reports shall be required and prepared consistent with land use regulations (Title III, Land Use and Development, Division 3, Building Regulations, Chapter 6—Geologic Hazards.)		

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
				COMMENTS:		
A	B	C		S-S2. Landslide Maps. Utilize California Division of Mines and Geology, North Coast Watersheds landslide mapping as information to assist in review of developments.		
A	B	C		S-S3. Alquist-Priolo Fault Hazard Zones. Utilize California Mines and Geology Board Policies and Criteria for Alquist-Priolo Fault Hazard Zones (Special Publication #42) as standards of implementation within zones.		
A	B	C		S-S4. Tsunami Emergency Response Plan. The Tsunami Emergency Response Plan shall guide interagency response efforts.		
				COMMENTS:		
			D	<p>3292.1. Require geologic reports according to the Geologic Hazards Land Use Matrix as follows:</p> <p>A. R1 Report Requirements:</p> <p>1. A preliminary engineering geologic report and a preliminary soils engineering report shall be prepared for the classes of development and hazard areas indicated by "R1" in the Geologic Hazards Land Use Matrix.</p> <p>2. The preliminary engineering geologic report shall be prepared by a certified engineering</p>		

Plan Alternative	Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
	<p>geologist and shall provide a geological reconnaissance and evaluation of the project site and surrounding terrain. The preliminary report shall identify areas or issues which either do or do not require further engineering geologic and/or soils engineering evaluation.</p> <p>3. The preliminary soil engineering report shall describe the nature of the subsurface soils and any soil conditions which would affect the design and/or layout of the proposed development. The report shall include the locations and logs of any test borings and percolation test results if on-site sewage disposal is proposed. The report shall recommend areas or issues of concern which require additional engineering or geologic evaluation.</p> <p>4. The additional information that is recommended by the preliminary reports shall be provided or the proposed development shall be modified to avoid the identified areas of potential instability. The proposed development shall be sited and designed in accordance with the recommendations of the reports in order to minimize risk to life and property on the project site and for any other affected properties.</p> <p>B. R2 Report Requirements</p> <p>NOTE: A report prepared by a registered geologist is required in the fault rupture Special Studies Zone unless waived pursuant to the Alquist-Priolo Act.</p> <p>1. A preliminary engineering geologic report and a preliminary soils engineering report shall be prepared for the classes of development and hazard areas indicated by "R2" in the Geologic Hazards Land Use Matrix. These reports shall be prepared by either a registered geologist or a registered civil engineer experienced and knowledgeable in the practice of soil engineering. These reports shall provide a geologic reconnaissance and evaluation of the project site and surrounding terrain. (Res. 85-126, 12/17/85)</p> <p>2. A soils engineering analysis may meet the preliminary geologic report requirement for developments where the primary concerns are soils mechanics and appropriate structural design. In such cases it is incumbent upon the engineer to consult a registered geologist should it become apparent that an adequate structural solution requires additional</p>		

Plan Alternative	Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
	<p>geologic input. If, after preliminary investigation of the project site and the surrounding terrain, no geological consultation is felt by the engineer to be required, the engineer shall certify that such an evaluation is not required. It is incumbent upon the geologist to recommend that a soils engineer be consulted when it becomes apparent that soils mechanics analyses are needed.</p> <p>3. The applicant shall either provide additional information as recommended by the preliminary geologic or soils report or modify the application to avoid identified areas of potential instability. The proposed development shall be sited and designed in accordance with the recommendations of the report(s) in order to minimize risk to life and property on the project site and for any other affected properties.</p> <p>C. The above required geologic reports, "R1" and "R2", shall be prepared in accordance with the California Division of Mines and Geology (CDMG) Note #44, "Recommended Guidelines for Preparing Engineering Geologic Reports". CDMG Notes #37, 43, and 49 shall be utilized as applicable when seismic or fault rupture hazards are identified as concerns.</p> <p>D. The report requirement may be waived when an adequate geologic assessment at a suitable scale already exists for the site proposed for development.</p> <p>E. The criteria for determining whether or not a report is required when it is discretionary include the following; however, where evaluation of items 1-6 is inconclusive, a statement is required by a registered engineer that a geologic report is not required for the safety of the project.</p> <ol style="list-style-type: none"> 1) the site inspection of the building inspector; 2) geologic maps and reports covering the area; 3) the potential for the development to affect adjacent property or improvements; 4) the degree to which public exposure to risk may be a factor; 		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
			<p>5) the size and scale of the proposed development;</p> <p>6) for development within the Coastal Zone, the policies of certified local coastal plans. F. Waivers of the R1 report requirements as indicated in the Land Use Geologic Hazards Matrix, but not within critical Watersheds, may be provided for by ordinance where consistent with protection of the public health, safety, and welfare and with the County's certified coastal plans.</p> <p>G. Utilize California Department of Forestry (CDF) series of 15 minute geologic maps and 7 1/2 minute landslide maps as information to assist in review of developments. (Res. 85-126, 12/17/85)</p> <p>H. Utilize California Mines and Geology Board policies and Criteria for Alquist-Priolo Special Studies Zones as standards of implementation within zones</p>		
			COMMENTS:		
			Flood Management		
A	B	C	S-S5. Flood Regulations. Regulatory standards for flood mitigation shall be based on <u>FEMA Flood Insurance Rate Maps</u> and regulations and local ordinances. (Humboldt County Ordinance 1541).		
			COMMENTS:		
A	B	C	S-S6. Flood Plains. No new essential facilities that would be rendered inoperable by flooding shall be permitted to locate within the 100-year flood plain.		

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				COMMENTS:		
A	B			S-S7. Tsunamis. New development below the level of the 100-year tsunami run-up elevation shall be limited to public access, boating, public recreation facilities, agriculture, wildlife management, habitat restoration, and ocean intakes, outfalls, pipelines, and dredge spoils disposal.		
				COMMENTS:		
A	B	C		S-S8. Flooding and Drainage Management Activities. Flooding and drainage management shall be principally permitted in all zones when consistent with applicable state, federal, and local regulations.		
				COMMENTS:		
			D	3292.2. Hydrologic Hazards A. Flood Insurance Maps (County Ordinance 1541) B. Tsunami Run-up Report: H-78-26, Army Corps of Engineers.		
				Fire Hazards		
A	B	C		S-S9. SRA Fire Safe Regulations. Development within SRA shall conform to SRA Fire Safe Regulations (Humboldt County Code, Division 11 of Title III, <u>as amended</u>).	Allows updates to regulations	
				COMMENTS:		

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C		S-S10. California Building Codes. New construction shall conform to the most recently adopted California building codes.		
				COMMENTS:		
A	B	C		S-S11. California Fire Code. The California Fire Code shall be applied to all applicable development.		
				COMMENTS:		
A	B	C		S-S12. Fire Hazard Severity Zone Maps. The County shall use the most recently adopted CALFIRE Fire Hazard Severity Zone Maps for fire planning and local land use and <u>development review purposes.</u>	Expands policy to include development review	
				COMMENTS:		
A	B	C		S-S13. Master Fire Protection Plan. Utilize the Master Fire Protection Plan for countywide fire prevention and response strategy and implementation.		
				COMMENTS:		
			D	3292. 3. Fire Hazards A. Wildland Fire and Flood Map		

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
				Airport Safety		
A	B	C		S-S14. Airport Land Use Compatibility Plan. Development within the jurisdiction of Airport Land Use Compatibility Plans (ALUCP) shall conform to the policies and standards of the ALUCP.		
				COMMENTS:		
			D	3292. 5. Airport Safety A. Airport Master Plan		
				Industrial Hazards		
A	B	C		S-S15. Hazardous Materials Handling and Emergency Response. The County shall condition new development that handles toxic, flammable, or explosive materials in such quantities that would, if released or ignited, constitute a significant risk to adjacent human populations or development to conform to the applicable state or federal materials handling and emergency response plans.		
				COMMENTS:		
A	B	C		S-S16. Transport of Nuclear Materials. Transport of nuclear materials shall conform to the prohibitions of Ordinance #1403; Humboldt County Code, Title III, Division 8, Chapter 3, <u>as amended.</u>	Allows updates to regulations	

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
			D	<p>3292.7. Industrial Hazards A. Hazardous Materials Spills Contingency Plan. B. Chlorine Accident Contingency Plan. C. Humboldt Bay Nuclear Reactor Contingency Plan. D. Prohibition on Transport of Nuclear Materials (Ordinance #1403; Humboldt County Code, Title III, Division 8, Chapter 3). E. Define "Hazardous industrial development" as any development that handles toxic, flammable, or explosive materials in such quantities that would, if released or ignited, constitute a significant risk to adjacent human populations or development.</p>		
				Emergency Management		
A	B	C		<p>S-S17. Humboldt County Operational Area Office of Emergency Services (OES). Local emergency management and response operations shall be consistent with Humboldt County Operational Area Emergency Operations Plan and Humboldt County Ordinance 2203.</p>		
				COMMENTS:		
A	B	C		<p>S-S18. Consistency with State and Federal Framework. County emergency response efforts shall be consistent with the California Emergency Services Act (California Government Code, Section 8550 et seq.) and the federal National Response Framework (effective March 2008, as amended) and the <u>National Incident Management System (NIMS)</u>.</p>	County uses NIMS system	
				COMMENTS:		

Plan Alternative				Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
				14.6 Implementation Measures		
A	B	C		S-IM1. Code Review. Review and amend as needed the land use code and subdivision regulations for consistency with fire protection policies of the General Plan.		
				COMMENTS:		
A	B	C		S-IM2. Hazard Planning Information on the Internet. Maintain countywide hazard land use planning data—such as fire district boundaries, State Responsibility Areas (SRA), hazard areas, and plans on the internet.		
				COMMENTS:		
A	B	C		S-IM3. Drainage Ordinance. The County shall implement drainage course flood mitigation policies through the adoption of a drainage ordinance.		
				COMMENTS:		
A	B	C		S-IM4. Update County State Responsibility Areas (SRA) Fire Safe Regulations. Humboldt County SRA Fire Safe regulations should be updated to identify specific hazard zones, where necessary, to ensure that fire mitigation is proportional to risk <u>as identified in State Fire Hazard Severity Maps.</u> These zones may specify special measures for implementation including: irrigated green belts, perimeter roads, roadway layout and design, slope development constraints, fuel modification zones, vegetation setbacks, and enforcement.	Omitted reference to County created hazard zones	
				COMMENTS:		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C	<p>S-IM5. Coordination with CAL FIRE on State Responsibility Areas (SRA) Exception Requests. The County shall maintain efficient and timely procedures for processing SRA Exception Requests to CAL FIRE.</p>		
			<p>COMMENTS:</p>		
A	B	C	<p>S-IM6. Master Fire Protection Plan (MFPP). Actively support and pursue the implementation recommendations in the MFPP. Periodically update the MFPP. The risk assessment portion of the MFPP shall be updated at least every five years.</p>		
			<p>COMMENTS:</p>		
A	B	C	<p>S-IM7. Funding Fire Planning Activities. The County shall pursue state and federal funding sources to support the coordination and planning needs of local fire safe councils and fire agencies.</p>		
			<p>COMMENTS:</p>		
A	B	C	<p>S-IM8. Local Hazard Mitigation Plan. Participate in FEMA's pre-disaster mitigation program by developing, maintaining, and implementing a Local Hazard Mitigation Plan.</p>		
			<p>COMMENTS:</p>		
A	B	C	<p>S-IM9. Emergency Operations Plan. The County shall maintain a Humboldt County Operational Area Emergency Operations Plan consistent with FEMA standards.</p>		
			<p>COMMENTS:</p>		

Plan Alternative			Chapter 14 Safety Element	Staff Remarks/ Implementation	Position R,M,D
A	B	C	S-IM10. Geologic Reports Correction. Correct errata in the Geologic Hazards Land Use Matrix contained in the grading and building regulations (Title III, Land Use and Development, Division 3, Building Regulations, Chapter 6—Geologic Hazards.)		
			COMMENTS:		
A	B		S-IMX1. Probabilistic Tsunami Inundation Mapping. <u>The County shall seek funding to conduct studies and prepare probabilistic tsunami hazard mapping for the unincorporated areas and prepare and publish a 100-year tsunami run-up map for use in ministerial and discretionary project review.</u>	New recommended implementation measure	
			COMMENTS:		
A	B		S-IMX2. Firewise Plants. <u>The County shall provide a list of acceptable "Firewise" plants suited to and/or native to the local area. This list should be developed with the cooperation of the County and fire authorities having jurisdiction, and made available at the Humboldt County Planning Department and include information about how to maintain plants to maximize fire resistance.</u>	New recommended implementation measure	
			COMMENTS:		