

# Annex B: Individual Jurisdiction Plans

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ANNEX B Section 2, 1.1

DRAFT

**Regional Hazard Mitigation Plan  
Jurisdiction Letter of Intent to Join King County’s Plan  
Signature Form**

I, jurisdiction of \_\_\_\_\_ hereby commit to actively participating in the Regional Hazard Mitigation Plan. I understand that each jurisdiction participating in the Plan is individually responsible for accomplishing the tasks listed below.

- o Designate a Point of Contact (POC) for this jurisdiction to coordinate mitigation planning efforts. Inform KC OEM immediately when the POC changes.

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<i>Point of Contact</i>	<i>email address</i>	<i>phone number</i>
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- o Ensure the governing body of this jurisdiction adopts the Regional Mitigation Plan by local ordinance.
- o Contribute at no cost available geographic data necessary to development of the Hazard Identification and Vulnerability Analysis including, but not limited to:
  - land use data
  - development patterns
  - population figures
  - infrastructure systems
  - hazard data and history of incidents
- o Develop a Local Mitigation Strategy (LMS) based on the King County Hazard Identification and Vulnerability Analysis. The LMS will include:
  - a set of mitigation goals specific to this jurisdiction aimed at reducing long-term vulnerability to hazards
  - a list of mitigation projects and actions
  - a description of how projects and actions will be prioritized and implemented
  - Involvement in NIFP compliance
  - Other FEMA required Plan components as amended
- o Develop a schedule for updating this jurisdiction's LMS and geographic data contained within the KC Regional Hazard Mitigation Plan guidelines, Section 2, Plan Maintenance and Plan Management section
- o Incorporate recommendations, policies, and strategies included in the LMS into other local planning tools and methods such as land use plans, Capital Improvements Plans, site review processes, zoning ordinances, and others.

Signature of Chief Elected Official Signed: \_\_\_\_\_  
 Printed signature: \_\_\_\_\_  
 Jurisdiction: \_\_\_\_\_ Date: \_\_\_\_\_

## **Annex B: Cities**

## **Annex B: Fire Districts**

## **Annex B: Utility Districts**

## **Annex B: School Districts**

**2009 Evaluation of 2004 King County Initiatives  
(Status is noted in upper right-hand corner)**

**Annex B: King County Government Departments (2004)**

King County Facilities Management  
King County Department of Transportation  
King County Department of Executive Services, Information and  
Telecommunications Services Division  
King County Department of Development and Environmental Services  
Seattle-King County Department of Public Health  
King County Department of Natural Resources and Parks  
King County Sheriff's Office

## **Regional Mitigation Plan King County Government Strategy Summary**

### **Jurisdictional Profile:**

King County is the 12<sup>th</sup> largest county in the United States and home to more than 1.7 million people. The County, spanning 2134 square miles, comprises 39 cities and numerous utility, school and fire districts. Approximately two-thirds of the County's population resides in the cities. The City of Seattle is the largest city in King County and one of the largest cities on the West Coast. King County is a major transportation hub in the Northwest. Seatac Airport, the Port of Seattle, Burlington Northern Santa Fe, and Union Pacific Railroads all contribute to the County's regional economic leadership. Seattle has a major seaport serving passenger ships and cargo handling enterprises. Many important public companies are headquartered in Seattle or suburban cities. A large number of technology firms are based in King County. As a center for regional employment, large numbers of people commute to King County for work each day.

### **Hazard Vulnerability and Risk Assessment:**

King County is subjected to the impact of several types of natural disasters. With its large and complex infrastructures, the County has experienced damages from earthquakes, flooding, and severe weather. As the regional seat of government and commerce, it has witnessed political civil unrest and is a possible target of terrorist activities. (See HIVA in Section 4 for more information.)

### **Ongoing Mitigation Efforts:**

King County Government has long been a leader in hazard mitigation. Several agencies contribute to this effort. The King County Department of Natural Resources and Parks, Water and Land Resources Division is a national leader in flood mitigation. Floodplain protection programs have included the acquisition of properties experiencing repeated flood damages, warning systems, dam and levee inspections, and extensive preventative and emergency response plans. These proactive measures taken as a participant in the NFIP have earned King County a high CRS rating and resulted in the residents' having benefited from reduced flood insurance premiums (See **Flooding** in Section 5 for more information.). Other examples of current mitigation commitments include the recent dedication of the King County - Kent Pullen Regional Emergency Communications and Coordination Center, earthquake retrofitting of the King County Courthouse and Project Impact.

Additionally, many county government agencies engage in public education. The Seattle King County Department of Public Health, the King County Sheriff's Office, King County Office of Emergency Management, and King County Water and Land Resources all provide the public with mitigation information. The King County Fire Marshal's

Office and the Department of Developmental and Environmental Services provide inspections and code enforcement that improve safety in the region.

**Mitigation Strategy:**

Projects Currently Funded:

King County's Mitigation Strategy is to continue to work on programs and capital improvement projects already receiving funding derived from the existing tax base and grants. These projects are consistent with three Regional Goals: Protection of Life and Property, Support of Emergency Services, and Public Education/Awareness. These include the following in order of importance:

1. Public Education
2. Citizen Corp/CERT
3. Code revision and enforcement
4. Flood Hazard Reduction Program
5. Disaster Preparedness
6. Earthquake Mitigation Projects

Projects Contingent Upon Future Funding:

If additional funding becomes available, King County has identified its Information and Technology needs as its highest priority. Mitigation projects to this end involve the implementation of offsite data storage and backup, surveillance and monitoring capabilities. The City of Seattle, King County Information and Technology and King County Sheriff's Office staff have identified many common needs for system upgrade and improvements. Project planning discussions are already taking place between the City of Seattle and King County IT management on ways to best coordinate their efforts.

The County is considering the following projects, ranked by order of benefit-cost ratios:

1. Expansion of earthquake structural mitigation for public buildings
2. Flood property buy out program might be expanded as properties are identified
3. Backup Emergency Communications and ITS infrastructure
4. Expansion of Public Education Programs

If funding is not readily available, these projects will nevertheless be pursued but implementation and completion will be delayed. Further, if a project becomes funded, it will be implemented regardless of its order of importance.

Individual Agencies' Strategies:

Each agency within the King County government formulates its own mitigation strategy based upon benefit-cost analysis and other objective methods identified in the following section. The listed projects above are priorities across agency lines.

**Benefits of Mitigation:**

The mitigation strategy considered supports continuity of regional government services to 1.7 million people following disasters, protects public property from disaster impacts, and supports emergency service providers.

Regional Hazard Mitigation Plan  
King County Government Administration

Planning Participation

Members of the King County Office of Emergency Management facilitated the research and writing of the Regional Hazard Mitigation Plan. One of the planning workgroups represented King County Government. This group consisted of representatives from King County Parks, Solid Waste, Waste Water, Transit, Information and Technological Services, the Sheriff's Office, Assessments, Facilities, and Public Health. The workgroups provided technical information regarding their organizations. They also produced their own agency strategies and initiatives. The group offered a consensus strategy for King County Government.

Plan Adoption

The King County Government adoption process involved multiple steps. The draft Regional Hazard Mitigation Plan was first distributed to the departments and divisions contributing to the King County Government Workgroup for acceptance. After requested revisions had been addressed, the revised draft was transmitted to the King County Executive's staff for review and comment. Once the Executive determined that the County's interests were acceptably communicated, the document was released to Washington State Emergency Management for review against FEMA requirements. It then went to Risk Management and the Prosecuting Attorney Office for their evaluation. The Regional Hazard Mitigation Plan will be forwarded to the 13-member King County Council for a resolution to adopt the King County government portion of the plan following its acceptance by FEMA. The process takes several months.

Plan Maintenance

The Regional Hazard Mitigation Plan will be revised annually for resubmission to FEMA and the State of Washington on the second Monday of December. King County Government amendments, revisions and additions will be provided to the Regional Hazard Mitigation Plan Taskforce by the end of September each year for incorporation into the plan. Changes to the King County portion of the plan will be affirmed by the impacted department managers.

Jurisdiction Strategy  
King County Sheriff's Office

**Jurisdiction Profile**

The King County Sheriff's Office (KCSO) is a full service law enforcement agency that provides services to unincorporated King County and to 13 contract cities. The Sheriff's Office also provides service to King County Airport (Boeing Field), and Metro Transit, and enhanced service to one Native American Tribe. Specialized services to other jurisdictions are provided on a contract and/or regional basis. The King County Sheriff's Office is also a Primary Public Safety Answering Point (PSAP) for incoming 9-1-1 calls.

**Mitigation Efforts to date**

KCSO is working to increase and enhance its ability to respond to natural disasters and acts of terrorism by improving security, protecting personnel, physical and cyber assets against damage or attack. Counter terrorism mitigation continues to develop and to shift with the perceived local and national threat.

To date KCSO has developed plans and procedures for essential personnel, provided training, purchased and distributed personal protective equipment, tested security practices, participates in regional and national intelligence sharing teams and formed a regional intelligence group.

**Mitigation Strategy**

The KCSO Strategy is consistent with the Regional Goals and Objectives. The Mitigation Strategy proposed for the King County Sheriff's Office is to:

- Acquire protective and response equipment
- Provide training for department personnel
- Enhance security at critical facilities
- Enhance counter terrorism capabilities
- Enhance intelligence and information sharing capabilities

**Prioritization Process**

Our highest priority was given to life safety for officers; second priority given to protection of public property; third priority given to public education. Benefit cost review and population served objective criteria were primary considerations in the establishment of project priorities.

**Funding Sources**

KCSO continues to seek funding for this contingency through the budget process, grants and other funding sources to mitigate the impacts of natural and manmade threats. KCSO continues to participate in grant funded WMD response equipment acquisition programs. Other needs require additional funding, currently unavailable through the budget process.

**Mitigation Benefits**

Proposed projects would protect lives and property of commissioned law enforcement, emergency responders and citizens of King County and contract cities, and would allow the Sheriff's Office to continue to provide critical law enforcement services in the event of a disaster or terrorist attack.

**PLAN IMPLEMENTATION**

The Sheriff's Office has requested funding through an existing grant. Future projects may involve operational budget resources or grant funding.

**BENEFIT COST REVIEW**

Benefit Cost Review was a primary consideration in the prioritization of projects. The King County Sheriff's Office used \$2.3 million as the value of a human life, consistent with the federal valuation of World Trade Center victims. Using the methodology consistent in this plan, the cost/benefit ratio for our single initiative is 1.5 to 1.

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: King County Sheriff's Office

Type of Hazard: Terrorist Attack

Category: Public Safety

Priority: High (meets primary mission of Sheriff's Office)

Plan Adoption # (tracking #): 2003ULWX0012

Brief Description of Project: Enhance homeland security mitigation and response capabilities by acquiring dedicated staff for training, planning, response, and intelligence sharing and analysis.

Rationale for project: (Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project). The Sheriff's Office must be able to provide law enforcement service in the event of a terrorist attack or other disaster.

RHMP Goals: (1) Protect life and property. RHMP Objectives: (1.b) Maintain essential services.

Lead Jurisdiction: King County (Sheriff's Office, Special Operations Division).

Participating Jurisdictions: N/A

Cost of Project: \$1.5 million

Estimated time period implemented: 3 years

Funding Sources:

"COPS" Grants (DOJ)

	Matching %
Primary	<u>75</u>
Secondary	<u>25</u>
Tertiary	___

Source and Date: County budget process (including supplementat funds); grants.

Adoptive date and/or Ordinance #: Grant start date 06-01-03; program implementation date 01-01-04. 2003ULWX0012

Status: \$1.08 million grant approved, to be spent over 3 years. Seeking additional funding through budget process and future grants.

Benefit/Cost Ratio: Unable to attach a cost/value to human lives that could be lost in a terrorist attack.

## Jurisdiction Strategy

Solid Waste Division, King County Department of Natural Resources and Parks

### Jurisdiction Profile

The King County Solid Waste Division provides a system for the transfer and disposal of all mixed municipal solid waste generated within King County except for waste from the cities of Seattle and Milton. This service is provided to a population of approximately 1.14 million people. The Cedar Hills Regional Landfill is the only operating landfill located in King County. Materials are delivered to the landfill via tractor-trailers that provide transport from a system of eight transfer facilities located throughout the County.

The King County Solid Waste Division takes a proactive approach to disaster preparedness. Plans for the division's response and recovery from disaster impacts have been developed and are regularly updated. Staff training and plan updating are done on a continuous basis. As pre-disaster mitigation needs are identified, they are prioritized and the Division takes steps to include them in their capital improvement budget, their asset management budget, or to fund them through grants or similar sources.

The King County Solid Waste Division Strategy and Initiatives are consistent with the Regional Goal to Protect Human Health and Safety. KC Solid Waste supports this goal by providing quality services that responsibly manage the County's solid wastes.

### Mitigation History

Past mitigation efforts conducted by the Division of Solid Waste have focused on providing all hazards capabilities to division sites and locations. This has included communications capability improvements, installation of backup power generator capacity, structural evaluation of facilities and subsequent roof replacement (completed) at one of the transfer stations.

Current mitigation activities include redesign and rebuilding of roof structures at a two additional transfer stations. One project is currently in progress, the other is in the permitting stage. The roof replacement will result in a significant reduction in possible earthquake damages, wind damages, and potential damage from excessive snow loading. The Division is in the progress of expanding its data sharing network to improve system redundancy and maintain system operations.

The Strategic focus of the Division of Solid Waste is to:

- To maintain essential services
- Provide environmentally sound transfer and disposal of solid waste
- To minimize damage during an event
- To return closed facilities to operation as quickly as possible

The Solid Waste Division Strategy will benefit the 1.14 million customers of King County by continuing service and supporting debris management resulting from natural or technological disasters. Our goals are consistent with the Regional Strategy.

**Jurisdiction Strategy**  
Public Health Seattle King County

Public Health Seattle King County (Public Health) provides services to communities throughout King County, Washington, in order to sustain healthy people by promoting healthy behaviors and preventing disease and injuries. Public Health also cooperates with other counties and state jurisdictions for the provision of similar services. We serve the County with a staff of 1700 employees at 35 sites.

Public Health works to increase and enhance its ability to respond to natural, technological and criminal hazards by improving security, educating and protecting personnel and the public, and protecting physical and cyber assets against damage or attack. Mitigation against acts of bio terrorism continues to develop and shift with the perceived local and national threat.

To date, Public Health has developed plans and procedures for mobilizing personnel to address critical consequences. Critical training needs for all staff have been identified, as well as anticipated education, mitigation, and planning activities. Public Health has purchased and distributed communication equipment, tested security practices, participated in regional and national exercises, and cooperated with hospitals in planning for coordination of medical services such as regional and local hospital bed counts during emergencies and disasters.

The mitigation strategy proposed for Public Health is to:

- Acquire communications response equipment
- Provide training for department personnel
- Enhance security at critical facilities
- Enhance disease surveillance capabilities
- Enhance intelligence and information sharing capabilities with national and state government entities
- Enhance integrity of structural and non-structural building elements at sites occupied by Public Health

Public Health continues to seek funding for these issues through the budget process, grants and other funding sources. We continue to participate in grant funded CDC disease response programs as well as programs locally-funded by the levy process. Other needs require additional funding which are currently unavailable through the budget process.

Proposed projects would protect lives and property of Public Health staff, patients, emergency responders and citizens of Seattle and King County, and would allow the department to continue providing critical public health services in the event of a large-scale emergency, disaster, or terrorist attack.

Regional Hazard Mitigation Plan  
Public Health Seattle King County

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## Mitigation Strategy

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### Paragraph 1

1. Public Health Seattle King County provides services to communities throughout King County, Washington, in order to sustain healthy people by providing public health services which promote health and prevent disease. Public Health also cooperates with other counties and state jurisdictions for the provision of similar services. It serves the County with a staff of 1700 employees at 35 sites.

### Paragraph 2

1. Regional Goals or Objectives Public Health Seattle King County is working to increase and enhance its ability to respond to natural disasters and acts of terrorism by improving security, educating and protecting personnel and the public, and protecting physical and cyber assets against damage or attack. Counter terrorism mitigation against acts of bio terrorism continues to develop and to shift with the perceived local and national threat.

2. Historic Projects Programs related to mitigation that illustrate jurisdictions commitment:

Public Health Seattle King County is working to increase and enhance its ability to respond to natural disasters and acts of terrorism by improving its vaccination programs and identification surveillance.

### Paragraph 3

Future mitigation projects or plans associated with Year One Hazards:

To date, Public Health Seattle King County has developed plans and procedures not only for essential personnel, but also for the basic emergency training of all staff. It has planned for additional education, mitigation, and planning, purchased and distributed communication equipment, tested security practices, participated in regional and national exercises, and cooperated with hospitals in planning for coordination of medical services such as regional and local hospital bed counts during emergencies and disasters. In addition, the Department is planning to secure non-structural elements at its facilities.

### Paragraph 4

Mitigation Strategy: Prioritized list of projects

1. Education of PH staff.
2. Communications system
3. Infectious disease outbreak team..
4. Public Education
5. First responder reporting capabilities
6. Mitigation of nonstructural and structural damage to facilities
7. Syndromic surveillance
8. Environmental Health program enhancement

### Paragraph 5

All of the above project area will require new sources of funding

Paragraph 6

1. Anticipated proposal benefits in dollars, services, or people/lives:  
The primary benefits will be the community savings of preserving health and lives, the prevention of damage to structural, non-structural elements, and to public health records and the damage to potentially hazardous (medical) materials at the public health facilities.

Regional Hazard Mitigation Plan of King County - Initiatives

**Jurisdiction Agency:** Public Health Seattle/King County

**Type of Hazard:** Earthquake, winter storm, civil unrest, flooding, etc.

**Category:** Life and health safety, public information and education, internal all-hazards, first responder training and reporting,

**Brief Description of Proposed Projects:**

Our goals are to support the public's health through emergencies and disasters by

1. Education of the Public Health staff in response to emergencies

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project).*

**RHMP Goals**

1. Supporting life and safety  
Enhance physical structures  
Education

**Lead Jurisdiction:**

Participating Jurisdictions:

Education: King Co. and City of Seattle

**Cost of Project:** Not yet determined

**Estimated time period implemented:** 5 years

**Funding Sources:** Not yet determined

**Adoptive date and/or Ordinance #:** Not yet determined

Status:

Programs have been begun to educate staff to respond at home and at work to emergencies and disasters.

Regional Hazard Mitigation Plan of King County - Initiatives

**Jurisdiction Agency:** Public Health Seattle/King County

**Type of Hazard:** Earthquake, winter storm, civil unrest, flooding, etc.

**Category:** Life and health safety, public information and education, clinical response training, reporting, and communication of infectious diseases

**Brief Description of Proposed Projects:**

Our goals are to support the public's health through emergencies and disasters by

3. Infectious disease outbreak response team program

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project).*

**RHMP Goals**

Supporting life and safety

**Lead Jurisdiction:** King Co. and City of Seattle

**Cost of Project:** Not yet determined

**Estimated time period implemented:** 5 years

**Funding Sources:** Not yet determined

**Adoptive date and/or Ordinance #:** Not yet determined

Status:

Enhanced environmental health program is currently unfunded

Regional Hazard Mitigation Plan of King County - Initiatives

**Jurisdiction Agency:** Public Health Seattle/King County

**Type of Hazard:** Earthquake, winter storm, civil unrest, flooding, etc.

**Category:** Life and health safety, public information and education, internal all-hazards, first responder training and reporting,

**Brief Description of Proposed Projects:**

Our goals are to support the public's health through emergencies and disasters by

4. Planning for the education of the public in disaster response

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project).*

**RHMP Goals**

1. Supporting life and safety: Public Education

**Lead Jurisdiction:**

Participating Jurisdictions:

King Co. and City of Seattle

**Cost of Project:** Not yet determined

**Estimated time period implemented:** 5 years

**Funding Sources:** Not yet determined

**Adoptive date and/or Ordinance #:** Not yet determined

Status: Some planning has been done of public health information (fact sheets, etc for distribution) for the public during disasters.

Regional Hazard Mitigation Plan of King County - Initiatives

**Jurisdiction Agency:** Public Health Seattle/King County

**Type of Hazard:** Earthquake, winter storm, civil unrest, flooding, etc.

**Category:** Life and health safety, public information and education, internal all-hazards, first responder training and reporting,

**Brief Description of Proposed Projects:**

Our goals are to support the public's health through emergencies and disasters through:

5. support and enhance current EMS first responder reporting capabilities

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project).*

**RHMP Goals**

Supporting life and safety:

Enhance current reporting of disasters and regional emergency electronic data collection by King County Medic One First responders

**Lead Jurisdiction:**

King County

**Cost of Project:** Not yet determined

**Estimated time period implemented:** 5 years

**Funding Sources:** CDC and King County bond issue (King County Levy)

**Adoptive date and/or Ordinance #:** currently being piloted

**Status:**

currently being developed and tested

**Benefit/Cost Ratio:** Not yet determined.

## Regional Hazard Mitigation Plan of King County - Initiatives

**Jurisdiction Agency:** Public Health Seattle/King County

**Type of Hazard:** Earthquake, winter storm, civil unrest, flooding, etc.

**Category:** Life and health safety, public information and education, internal all-hazards, first responder training and reporting,

**Priority:** high

### **Brief Description of Proposed Projects:**

Our goals are to support the public's health through emergencies and disasters by

6. Mitigation of
  - a. structural damage at Public Health sites including training to determine structural damage during and after impacts
  - b. non-structural damage at Public Health sites including training to determine non-structural damage during and after impacts

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project).*

### **RHMP Goals**

1. Supporting life and safety  
Enhance physical structures  
Education

### **Lead Jurisdiction:**

We lease buildings from King Co., The City of Seattle and private building owners

Participating Jurisdictions:

Education: King Co. and City of Seattle

**Cost of Project:** Not yet determined

**Estimated time period implemented:** 5 years

**Funding Sources:** Not yet determined

**Adoptive date and/or Ordinance #:** Not yet determined

### **Status:**

No current programs to enhance the seismic integrity of currently rented structures.  
Some initiatives begun to mitigate non-structural hazards  
Future policy to refrain from renting structures which do not meet current local seismic standards.

Regional Hazard Mitigation Plan of King County - Initiatives

**Jurisdiction Agency:** Public Health Seattle/King County

**Type of Hazard:** Earthquake, winter storm, civil unrest, flooding, etc.

**Category:** Life and health safety, public information and education, internal all-hazards, first responder training and reporting.

**Brief Description of Proposed Projects:**

Our goals are to support the public's health through emergencies and disasters by

7. Enhancement of syndromic surveillance

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project).*

**RHMP Goals**

Supporting life and safety

**Lead Jurisdiction:** King Co. and City of Seattle

**Cost of Project:** Not yet determined

**Estimated time period implemented:** 5 years

**Funding Sources:** Not yet determined

**Adoptive date and/or Ordinance #:** Not yet determined

**Status:**

Enhanced syndromic surveillance has been initiated by the addition of an expanded epidemiological program and the addition of personnel to staff it.

Regional Hazard Mitigation Plan of King County - Initiatives

**Jurisdiction Agency:** Public Health Seattle/King County

**Type of Hazard:** Earthquake, winter storm, civil unrest, flooding, etc.

**Category:** Life and health safety, public information and education, internal all-hazards, first responder training and reporting,

**Brief Description of Proposed Projects:**

Our goals are to support the public's health through emergencies and disasters by

8. Enhanced environmental health programs for response to terrorist acts involving:
  - a. chemical and radioactive events
  - b. threats to the food and water supply
  - c. airborne illnesses

Rationale for project: *(Recognizing the hazard and proposed solution, resolution, and/or specified law or regulation impinging on the project).*

**RHMP Goals**

Supporting life and safety

**Lead Jurisdiction:** King Co. and City of Seattle

**Cost of Project:** Not yet determined

**Estimated time period implemented:** 5 years

**Funding Sources:** Not yet determined

**Adoptive date and/or Ordinance #:** Not yet determined

Status:

These environmental health programs are currently unfunded.

Jurisdiction Strategy  
King County Information and Technological Services Division

**Jurisdiction Profile**

King County Government's enterprise technology infrastructure provides important tools to support government operations. The voice and data communications networks are the two most critical components. In the event of a disaster, either natural or man-made, the County's immediate ability to respond to the emergency, provide financial, human resource and criminal justice services and maintain other direct services to the public are dependent on continued operation of those communications networks. This communications network serves a workforce of approximately 13,000 employees who support over 1.7 million County residents.

**Hazard Identification**

In 2002, the County began to experience significant network outages as a result of the Nachi worm. This impacted over 3,000 King County Government employees. The resulting impact of lost productivity was conservatively estimated at 10-20%. At an average burdened cost of \$35 per hour, productivity losses were between \$170,000 and 340,000 for this event. Approximately 45 technology staff members were engaged in response and recovery at a cost of \$65,000. Public Health billings worth approximately \$100,000 per day were delayed. The county trend toward increasing on-line services increases the potential service impacts from such system outages.

**King County ITS Mitigation Strategy**

- **Create more securely architected networks.** This includes better segmentation as well as instituting additional security capabilities (e.g. firewalls, intrusion detection, etc.). This initiative provides for a three pronged attack: prevention, detection, and rapid isolation.
- **Add redundancy for essential application servers.**  
King County and the City of Seattle face the same risk exposures with their primary data centers.
- **Promote redundancy in regional voice and data communications networks**

Highest Priority will be given to protection of existing information and telecommunications infrastructure. Moderate priority includes backup capacity and training.

**Implementing Funding Sources**

Funds to accomplish these strategic objectives are not currently available. Minor improvements and assessments will occur through King County internal funding sources. As grants or other resources become available the supporting initiatives will be implemented. King County currently operates on an annual budget cycle.

**Mitigation Benefits**

Mitigation measures related to security and redundancy of information systems protects the productivity of 13,000 government employees, and the continuity of government services to 1.7 million citizens.

**Consistency with Regional Objectives**

Strategic Priorities were established using Economic Cost-Benefit and population served objective criteria.

## **Metro King County Transit**

### **Jurisdictional Profile**

King County Metro is a transit agency whose service area is King County including the major cities of Seattle and Bellevue. Operations are conducted from seven bus bases and one streetcar barn with a daily ridership of 300,000.

### **Hazard Identification and History**

The primary hazards affecting operations are snow/ice storms, earthquakes, and terrorist acts. Snowstorms disabling major traffic corridors including the central business district of Seattle occur on a repetitive basis. Seismic activity due to geological faults in the area has resulted in several earthquakes and tremors in the recent past including a 6.8 in April of 2001. There have been no major acts of terrorism in King County but Seattle has been consistently assigned high target values. Transit vulnerabilities include a 1.3 mile transit tunnel under the Seattle business district, several operating bases and a fleet of over 1300 buses.

### **Regional Goals**

King County Metro Transit's identified hazards and correlating initiatives are consistent with the King County Regional Hazard Mitigation goals. Specifically Metro's initiatives as a provider of public transportation are to protect the life and property of the riding public (Regional Goal #1).

### **Current Mitigation Efforts**

Primary mitigation planning has focused on providing continued transit service for the general public as well as assisting any local evacuations. To support the primary mission attention has been given to protecting agency human and physical assets. The protection of critical infrastructure has included retrofitting all critical facilities structurally as well as securing the contents. Facilities that could not be retrofitted are in the process of being replaced including the construction of a self-sustaining communications and control center. Standby electrical generator capacity has also been added to three of the seven operating bases making them self-supporting. A Department of Justice grant has been approved for tunnel security improvements, creation of an All Hazards/WMD Plan and counter-terrorism/WMD mobile command centers. A full time security program manager has been hired to facilitate the integration of all transit security systems.

### **Mitigation Strategies and Prioritization**

The Metro King County mitigation plan is consistent with the regional objectives of Protection of Life and Property. Metro's strategy is:

1. Protection of the ventilation system in the transit tunnel.
2. Completion of the security camera installation on board the bus fleet.
3. Make new and current facilities resistant to earthquakes.
4. Provide additional onsite electrical capacity to make key facilities self-supporting
5. Implement security upgrades to transit assets to detect or lessen the affect of terrorist acts.

Prioritization of the mitigation initiatives (#1 and #2), attached, was based on the benefit-cost ratio of the two capital projects and the presence or absence of factors already mitigating the identified hazards. Items #3-6 were rated lower in importance because they are either part of the building code or have been funded and initiated.

### **Mitigation Funding**

Funding sources in addition to federal grants for King County Metro Transit are: fare box increases, fund balances, self-insurance fund reserve and bond sale. Plan implementation is based on funding availability.

### **Internal Planning**

Mitigation planning is staffed with relevant managers and supervisors and is approved by the Deputy General Manager. This plan was prepared by Metro Transit Safety in accordance with King County Office of Emergency Management directives, document review/ research and interviews of pertinent Metro personnel.

### **Plan Maintenance**

The planning team will continue to participate in the regional planning process and update the annex with an annual review with all King County agencies. Further review and revision will take place following every major hazard event. The primary holders of the plan are the Deputy General Manager/ Homeland Security Officer and the Supervisor of Service Communications.

### **Adoption Process**

See King County plan adoption.

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: Department of Transportation; Division of Metro Transit

Type of Hazard: Multi-hazard

Category: Facility

Priority: #1

Plan Adoption # (tracking #)

Brief Description of Project: Ventilation of Downtown Seattle Transit Tunnel: A positive ventilation system to limit the damage resulting from fires, fumes, or gases from chemicals used to control terrorists, civil unrest, or released by natural hazards.

Rationale for project: Emergency fans would remain open to the atmosphere. Barriers would restrict the flow by 75% allowing quick decontamination and recovery after an event. Complete details of the plan needs to be studied.

RHMP Goals Life and Health Safety

RHMP Objectives:

Lead Jurisdiction: King County Metro Transit Facilities Program Managing Engineer

Participating Jurisdictions:

Cost of Project: \$1.2M

Estimated time period implemented: two years

Funding Sources: Dept. Homeland Security

Matching %

Primary	100%
Secondary	___
Tertiary	___

Source and Date:

Adoptive date and/or Ordinance #

Status: Study and Design

Benefit/Cost Ratio: 250 : 1

Regional Hazard Mitigation Plan of King County - Initiatives

Jurisdiction Agency: King County Metro Transit

Type of Hazard: Multi Hazards -Civil Unrest & Terrorism

Category: Health and Life Safety/ Property

Priority: #2

Plan Adoption # (*tracking #*)

Brief Description of Project: **Bus Security Cameras** Installation of cameras on 700 buses to deter crime associated with civil unrest and terrorism.

Rationale for project: Terrorists or criminal activity can result in the loss of a 60 foot bus and subsequent lives of passengers and infrastructure.

RHMP Goals Health & Life Safety

RHMP Objectives:

Lead Jurisdiction: King County Metro Transit Manager of Vehicle Maintenance

Participating Jurisdictions:

Cost of Project: \$7,420,000.00

Estimated time period implemented: 2-3 years

Funding Sources: General Funds & Grants

Matching %

Primary \_\_\_\_\_

Secondary \_\_\_\_\_

Tertiary \_\_\_\_\_

Source and Date:

Adoptive date and/or Ordinance #

Status: The proposal is in the study and developmental stage.

Benefit/Cost Ratio: .11 : 1

**Jurisdiction Strategy  
King County Facilities**

The King County Facilities Management Division owns and operates 33 critical facilities located within 13 municipalities and in unincorporated King County in a jurisdiction that encompasses more than 2,200 square miles. Facilities include the King County Courthouse, Sheriff's Precincts and Communications Center, office space, clinics, maintenance locations and other facilities. A list of facilities is identified in the Critical Facilities Annex to this plan. Like other structures in King County, these facilities are subject to potential damages from natural disaster such as earthquakes, high winds and winter storms, urban flooding, or volcanic activity. Technological events like hazardous materials and radiological events are possible. Many King County government facilities are visible to the public and present opportunities for public demonstrations and terrorist activities.

The goal of King County Internal Government, Facilities Management Division is to protect life and property, to support emergency services and maintain continuity of government services in critical facilities through hazard mitigation. This is consistent with the Regional Mitigation Goals and Objectives.

Current Mitigation efforts include completion of seismic surveys, which identified the need for seismic mitigation projects in 17 critical facility buildings owned and operated by the King County Facilities Management Division. Seismic mitigation efforts have been completed in seven of those buildings are in progress at 8 buildings, and are scheduled for 1 additional facility. Design work is in progress for the one remaining facility requiring seismic upgrades.

Initiatives include:

- Seismic Upgrades to existing facilities
- Anti Terrorism improvements to warning and security systems in buildings (prioritized)

Mitigation efforts will continue on the facilities noted within existing capital improvement budgets. Extension of seismic mitigation projects to additional facilities is dependant of new sources of funding. Anti-terrorism warning and security mitigation measures are also dependant on finding new sources of project funding.

The anticipated benefits from following this strategy are the ability to protect the lives of government employees, emergency responders and the public, and reduce the vulnerability of public property to natural and terrorist impacts. Increased security at key government facilities would support and maintain continuity of government and critical functions prevent repetitive loss and remedy repetitive losses.

Strategic Priorities were established using Economic Cost-Benefit and population served objective criteria.

Jurisdiction Strategy  
King County Fire Marshal's Office

The King County Fire Marshal's Office (FMO) serves the citizen and businesses of unincorporated King County and contract cities with fire prevention and fire investigation services. Its mission is to promote public safety within the Uniform Fire and Building Codes as amended and adopted by King County.

The King County Fire Marshal's Office promotes mitigation by conducting inspections of new and existing properties within its service area. Its services promote public safety and minimize fire damages to residents and commercial properties. Representatives of the Fire Marshal's Office participate in code review and the adoption/revision process for the fire and Building codes. The FMO provides technical assistance to the King County Office of Emergency Management in the development of the Regional Hazard Mitigation Plan.

The King County Fire Marshal's Office mitigation strategy is to continue to promote structural improvements, planning and training consistent with the Regional Mitigation Plan human safety and property conservation objectives. Mitigation Measures within the service area include:

- Continued inspection of existing and new construction
- Plan Reviews for noted construction
- Support of Education, training and informational programs
- Working with schools and fire service public educators delivering public safety messages

These efforts will continue with existing resources derived from permitting fees and general revenue budgets.

The citizens and businesses within the KC FMO service area benefit from mitigation efforts with lower insurance premiums, fewer incidents of fire damage to properties and few injuries and deaths from fires in King County.

Strategic Priorities were established using Economic Cost-Benefit and population served objective criteria.