MEMORANDUM

To: James Reardon, Commissioner of Finance & Management
From: Nathan Lavery, Fiscal Analyst
Date: December 1, 2008
Subject: JFO #2350

No Joint Fiscal Committee member has requested that the following item be held for review:

JFO #2350 — $1,297,634.73 grant from the Federal Emergency Management Agency (FEMA) to the Agency of Transportation. These grant funds will be used to repair public facilities (state, local, and non-profit) in a number of counties that were damaged by the storms of June 21 to August 12, 2008.

[JFO received 10/30/08]

In accordance with 32 V.S.A. §5, the requisite 30 days having elapsed since this item was submitted to the Joint Fiscal Committee, the Governor’s approval may now be considered final. We ask that you inform the Secretary of Administration and your staff of this action.

cc: David Dill, Commissioner
MEMORANDUM

To: Joint Fiscal Committee Members
From: Nathan Lavery, Fiscal Analyst
Date: October 30, 2008
Subject: Grant Request

Enclosed please find one (1) request which the Joint Fiscal Office recently received from the Administration:

JFO #2350 — $1,297,634.73 grant from the Federal Emergency Management Agency (FEMA) to the Agency of Transportation. These grant funds will be used to repair public facilities (state, local, and non-profit) in a number of counties that were damaged by the storms of June 21 to August 12, 2008.

[JFO received 10/30/08]

The Joint Fiscal Office has reviewed this submission and determined that all appropriate forms bearing the necessary approvals are in order.

In accordance with the procedures for processing such requests, we ask you to review the enclosed and notify the Joint Fiscal Office (Nathan Lavery at 802/828-1488; nlavery@leg.state.vt.us or Stephen Klein at 802/828-5769; sklein@leg.state.vt.us) if you have questions or would like this item held for Joint Fiscal Committee review. Unless we hear from you to the contrary by November 13 we will assume that you agree to consider as final the Governor’s acceptance of this request.

cc: James Reardon, Commissioner
    David Dill, Commissioner
MEMORANDUM

To: Joint Fiscal Committee Members
From: Nathan Lavery, Fiscal Analyst
Date: October 30, 2008
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cc: James Reardon, Commissioner
    David Dill, Commissioner
STATE OF VERMONT
GRANT ACCEPTANCE FORM

DATE: October 16, 2008

DEPARTMENT: AOT - Operations

GRANT/DONATION (brief description and purpose):

FEMA Disaster Assistance Grant FEMA-1790-DR-VT
July 21 to August 12 storms – Addison, Caledonia, Essex, Lamoille, Orange,
Washington, and Windsor Counties. Statewide for hazard mitigation only.

GRANTOR/DONOR: FEMA

GRANT PERIOD: N/A

AMOUNT/VALUE: $1,297,634.73

POSITIONS REQUESTED (LIMITED SERVICE): 0

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None

COMMENTS:

State match of $223,615.89 will be needed. (ERAF).

Total Federal funds is $1,297,634.73 (75% of current damage estimate plus $55,324.23
administrative.)

RECEIVED
OCT 30 2008
JOINT FISCAL OFFICE
**STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE**  
(Form AA-1)

<table>
<thead>
<tr>
<th>BASIC GRANT INFORMATION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Agency:</strong></td>
<td>Transportation</td>
</tr>
<tr>
<td><strong>2. Department:</strong></td>
<td>Operations</td>
</tr>
<tr>
<td><strong>3. Program:</strong></td>
<td>Public Assistance</td>
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| **4. Legal Title of Grant:** | Disaster Assistance Grant  
FEMA 1790-DR-VT |
| **5. Federal Catalog #:** | 97-036 |

**6. Grant/Donor Name and Address:**  
Federal Emergency Management Agency  
99 High Street  
Boston, MA 02109-4595

**7. Grant Period:**  
From: 7/21/2008  
To: 7/21/2012

**8. Purpose of Grant:**  
To provide federal disaster assistance to repair damage to public facilities (state, local, and non-profit) caused by storms from July 21 to August 12, 2008.

**9. Impact on existing program if grant is not Accepted:**  
State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities (roads, bridges, buildings), debris removal, and emergency response.

**10. BUDGET INFORMATION**

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<tr>
<th>Expenditures:</th>
<th>SFY 1 FY 2009</th>
<th>SFY 2 FY 2010</th>
<th>SFY 3 FY 2011</th>
<th>Comments</th>
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<tr>
<td>Personal Services</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
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<tr>
<td>Operating Expenses</td>
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<td>$427,935</td>
<td>$427,934</td>
<td>$855,869</td>
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<td>$855,869</td>
<td>$427,935</td>
<td>$427,934</td>
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<table>
<thead>
<tr>
<th>Revenues:</th>
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<tr>
<td>Cash</td>
<td>$</td>
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<tr>
<td>In-Kind</td>
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<tr>
<td>Federal Funds:</td>
<td>$648,817</td>
</tr>
<tr>
<td>(Direct Costs)</td>
<td>$</td>
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<tr>
<td>(Statewide Indirect)</td>
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<tr>
<td>(Departmental Indirect)</td>
<td>$</td>
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<tr>
<td>Other Funds:</td>
<td>$</td>
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<tr>
<td>Grant (source Local share)</td>
<td>$95,244</td>
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<td>Total</td>
<td>$855,869</td>
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<table>
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<th>Appropriation No:</th>
<th>Amount:</th>
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<tr>
<td>8100005500-59700-20150</td>
<td>$1,297,635</td>
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<td>8100005500-59700-21555</td>
<td>$223,616</td>
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**STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE**  
(Form AA-1)

<table>
<thead>
<tr>
<th></th>
<th>$</th>
<th>$</th>
<th>$</th>
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<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

### PERSONAL SERVICE INFORMATION

11. Will monies from this grant be used to fund one or more Personal Service Contracts?  
   - [ ] Yes  
   - [x] No  
   If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding.

Appointing Authority Name: ____________________________  
Agreed by: ____________________________ (initial)

12. Limited Service  
Position Information:  

<table>
<thead>
<tr>
<th># Positions</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Total Positions: 0

12a. Equipment and space for these positions:  
- [ ] Is presently available.  
- [ ] Can be obtained with available funds.

### 13. AUTHORIZATION AGENCY/DEPARTMENT

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee Approval of this grant:

- Signature: ____________________________  
- Date: 10/16/2008  
- Title: Secretary of Transportation

### 14. ACTION BY GOVERNOR

- [x] Check One Box: Accepted  
- [ ] Rejected  
  (Governor’s signature)  
  Date: 10/24/08

### 15. SECRETARY OF ADMINISTRATION

- [ ] Check One Box:  
  - Request to JFO  
  (Secretary’s signature or designee)  
  Date: 10/16/08

### 16. DOCUMENTATION REQUIRED

Required GRANT Documentation:

- [ ] Request Memo  
- [ ] Dept. project approval (if applicable)  
- [ ] Notice of Award  
- [ ] Grant Agreement  
- [ ] Grant Budget  
- [ ] Request Memo  
- [ ] Dept. project approval (if applicable)  
- [ ] Notice of Donation (if any)  
- [ ] Grant (Project) Timeline (if applicable)  
- [ ] Request for Extension (if applicable)
## Damage (from PDA)

<table>
<thead>
<tr>
<th>Location</th>
<th>Total</th>
<th>FEMA</th>
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<tr>
<td>Caledonia</td>
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<td>$215,925.00</td>
<td>$9,615.86</td>
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<tr>
<td>Essex</td>
<td>$135,934.00</td>
<td>$101,950.50</td>
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<td>Lamoille</td>
<td>$143,700.00</td>
<td>$107,775.00</td>
<td>$4,799.58</td>
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<tr>
<td>Orange</td>
<td>$113,717.00</td>
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<td>Washington</td>
<td>$296,502.00</td>
<td>$222,376.50</td>
<td>$9,903.17</td>
</tr>
<tr>
<td>Windsor</td>
<td>$227,395.00</td>
<td>$170,546.25</td>
<td>$7,594.99</td>
</tr>
</tbody>
</table>

$1,656,414.00 $1,242,310.50 $55,324.23

$1,242,310.50 = Total FEMA support to applicants
$55,324.23 = Total Administrative support to State
$1,297,634.73 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF
ERAF: $223,615.89

Applicant Share: $190,487.61

Total (federal, state, & local): $1,711,738.23
To: Neale Lunderville, Secretary of Administration  
   (Governor’s Authorized Representative, FEMA PA Program)  
   via David Dill, Secretary of Transportation

From: Alec Portalupi, State Public Assistance Officer, FEMA PA Program

Date: September 23, 2008

Subject: FEMA 1790-DR-VT (July 21 to August 12, 2008 storms)

We are requesting your approval and signature on the attached documents for the State to apply for  
and receive federal assistance under the subject federal disaster declaration.

If you have any questions about these documents or need additional information, please contact  
Alec Portalupi at 828-3889. Thank you.

Attachments

Standard Form 424  
State of Vermont Form AA-1  
Various Correspondence between State and FEMA Region 1
**Grant Application - SF424**

<table>
<thead>
<tr>
<th>APPLICATION FOR FEDERAL ASSISTANCE</th>
<th>2. DATE SUBMITTED</th>
<th>Applicant Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. TYPE OF SUBMISSION</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Pre-Application</td>
<td>09-16-2008</td>
<td></td>
</tr>
<tr>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 3. DATE RECEIVED BY STATE          | N/A               | State Application Identifier |
| N/A                                |                   | N/A                           |

| 4. DATE RECEIVED BY FEDERAL AGENCY| N/A               | Federal Identifier |
| N/A                                |                   |                   |

| 5. APPLICANT INFORMATION           |                   |                     |
| Legal Name: Vermont Agency of Transportation |
| Organizational DUNS: 809376296-     |                   |                     |
| Address: One National Life Drive   |                   |                     |
| City: Montpelier                   |                   |                     |
| County: Washington                 |                   |                     |
| State: VT                          |                   |                     |
| Country: United States of America  |                   |                     |

| 6. FEDERAL EMPLOYER IDENTIFICATION NUMBER (EIN) | 03-6000274 |
| 7. TYPE OF APPLICANT                       | State Government |
| 8. TYPE OF APPLICATION                     | Grant Application (SF-424) |
| 9. NAME OF FEDERAL AGENCY                  | Federal Emergency Management Agency |
| 10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBERS | 97.036 |
| CFDA TITLES: PUBLIC ASSISTANCE             |                     |
| 11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT | N/A |

| 12. AREAS AFFECTED BY PROJECT            | Caledonia, Essex, Washington, Windsor, Addison, Orange, Lamoille, Statewide |
| 13. PROPOSED PROJECT:                   | Start Date: | End Date: |
|                                         |             |             |

|                                         |              |             |

| 15. ESTIMATED FUNDING                   |                |
| a. Federal                             | $ 944113       |
| b. Applicant                           | $ 0            |
| c. State                               | $ 162695       |
| d. Local                               | $ 138692       |
| e. Other                               | $ 0            |
| f. Program income                      | $ 0            |
| g. TOTAL                               | $ 1245400      |

| 16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS? | N/A |

| 17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? | N/A |

| 18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS REQUIRED. |
| a. Name of Authorized Representative | Norman Portalupi |
| b. Title | State Public Assistance Officer |
| c. Telephone Number | 802-288-3889 |
| d. Signature of Authorized Representative | |
| e. Date Signed | 9-18-08 |

https://isource.fema.net/emmie/internalIntegration?applicationId=3937 9/17/2008
DECLARED SEPTEMBER 12, 2008

SUMMARY

In the event of a declaration, the following information applies:

STATE: Vermont

NUMBER: FEMA-1790-DR

INCIDENT: Severe Storms and Flooding

INCIDENT PERIOD: July 21 to August 12, 2008

DATE REQUESTED BY GOVERNOR: August 25, 2008

FEDERAL COORDINATING OFFICER: Philip E. Parr
National FCO Program

DESIGNATIONS AND TYPES OF ASSISTANCE:

INDIVIDUAL ASSISTANCE (Assistance to individuals and households):

None.

PUBLIC ASSISTANCE (Assistance to State and local governments and certain private nonprofit organizations for emergency work and the repair or replacement of disaster-damaged facilities):

Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties.

HAZARD MITIGATION GRANT PROGRAM (Assistance to State and local governments and certain private nonprofit organizations for actions taken to prevent or reduce long term risk to life and property from natural hazards):

All counties in the State of Vermont are eligible to apply for assistance under the Hazard Mitigation Grant Program.

OTHER: Additional designations may be made at a later date after further evaluation.
JAMES H. DOUGLAS
Governor

State of Vermont
OFFICE OF THE GOVERNOR

August 25, 2008

The Honorable George W. Bush
President of the United States
The White House
Washington, D.C. 20500

Through: Arthur W. Cleaves
Regional Administrator
FEMA Region I
Boston, Massachusetts 02110

Dear Mr. President:

Under the provisions of Section 401 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. §§ 5121-5206 (Stafford Act), and implemented by 44 CFR § 206.36, I request that you declare a major disaster for the State of Vermont as a result of excessive rainfall that caused flash flooding and extensive road damage in certain areas throughout the State on and from July 21, 2008 through August 12, 2008. The Vermont counties impacted to the highest degree of eligible damage include Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor. Initial damage estimates exceed $1.66 million dollars. The damage was widespread due to an extended storm system that impacted seven of Vermont’s fourteen counties.

In response to the situation, I have taken appropriate action under State law and directed the execution of the State Emergency Operations Plan through the Commissioner of the Department of Public Safety beginning on July 21, 2008 and continuing in operation through August 12, 2008 in accordance with Section 401 of the Stafford Act. In accordance with the State Emergency Operations Plan, the following State Agency Support functions were activated: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, Vermont Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, and the American Red Cross. The communities of Ferrisburgh, Leicester, Middlebury, Northfield, Ripton, Rochester, Troy, Williamstown and Wolcott, Vermont each requested a local declaration of emergency due to excessive damage to their public infrastructure.

The State of Vermont has a State Mitigation Plan that was approved by FEMA in November of 2007. Approximately 85% of Vermont communities have FEMA approved local mitigation plans with the rest in various forms of draft stages.
Joint Federal, State, and local surveys of the damaged areas were conducted several times between July 21 and August 12 in different counties of the state:

- Lamoille 07/31/08
- Orange 08/08/08
- Caledonia 07/31/08
- Essex 08/12/08
- Washington 08/06/08
- Windsor 08/14/08
- Addison 08/08/08

Preliminary assessments by State and local officials indicated the most severe impacts were to town and state roads that received road damage by flash floods.

I have determined that this incident is of such severity and magnitude that effective response is beyond the capabilities of the State and the affected local governments and that supplementary Federal assistance is necessary. I am specifically requesting Federal assistance utilizing the following federal programs: Public Assistance for the counties of Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor, Vermont. The State of Vermont also requests that the Hazard Mitigation Grant Program (Section 404), available throughout the State.

Preliminary estimates of the types and amount of assistance needed under the Stafford Act are tabulated in Enclosure A.

The following information is furnished on the nature and amount of State and local resources that have been or will be used to alleviate the conditions of this disaster: The following State agencies were directed to provide immediate assistance as a result of flash flooding: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, State Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, Vermont National Guard and the American Red Cross. The flash flooding that devastated seven out of fourteen counties resulted from a storm system that according to the National Weather Service officially began on July 18, 2008 and went through August 12, 2008. A description of the storm system prepared by the National Weather Service office that serves most of Vermont is attached as Enclosure B. The damage from this storm that affected Vermont began on July 18 (FEMA-1784-DR), skipped a few days and then began again in earnest for the next three and a half weeks, between July 21 through August 12. Many communities were impacted several times and were not able to repair damaged infrastructure before the next storm cells caused additional damage. Some communities were in the process of recovering from another storm, FEMA-1778-DR, when they received additional damage from the latest storm.

Town and State road crews worked for several days to repair the damage to public roads and to open access routes for emergency vehicles several times. There was not much debris clean-up as most debris washed down the river systems. Unfortunately, two lives were lost as a result of the storms during this time period; one due to a house fire after being struck by lightening and in a separate incident, a boater was lost in stormy waters. Several private properties received major damage but did not meet the threshold to seek SBA Disaster Assistance or an IA declaration. Two camps with summer campers were evacuated due to
impassable and dangerous roads. Another summer camp also experienced destructive flash floods and heavy losses.

I certify that for this major disaster, the State and local governments will assume all applicable non-Federal share of costs required by the Stafford Act. Total state/local share expenditures are expected to exceed $414,000.

I have designated Barbara Farr, Director of Vermont Emergency Management, as the State Coordinating Officer for this request. Ms. Farr will work with the Federal Emergency Management Agency in damage assessments and may provide further information or justification on my behalf.

Sincerely,

James H. Douglas
Governor

Enclosures
**VTrans County Rollup: 21 July to 12 August 2008, Strong Winds, Heavy Rain, Flooding**

<table>
<thead>
<tr>
<th>County</th>
<th>A - Debris Removal</th>
<th>B - Protective Measures</th>
<th>C - Roads &amp; Bridges</th>
<th>D - Water Control Facilities</th>
<th>E - Buildings &amp; Equipment</th>
<th>F - Utilities</th>
<th>G - Parks, Recreation</th>
<th>Total</th>
<th>Population</th>
<th>Total Per Capita</th>
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<td></td>
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<td>451,266</td>
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<tr>
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<td></td>
<td>227,395</td>
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<td>1,000</td>
<td>2,000</td>
<td>1,656,414</td>
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</tbody>
</table>

Prepared by A. Portalupi

08/25/2008

ENCLOSURE A
August 19, 2008

MEMORANDUM FOR: Barbara Farr, Director Vermont Emergency Management

FROM: Andy Nash, Meteorologist-in-Charge, National Weather Service Burlington VT

SUBJECT: Weather Summary – Significant Wet Period, July 18 to August 12, 2008

Summary

Beginning in mid July, a persistent atmospheric system developed across the eastern Great Lakes resulting in rounds of severe weather and heavy rainfall across a large portion of Vermont. This repeated rainfall resulted in many areas of the state, especially central and northeastern sections, enduring their wettest July on record. The system continued to strengthen into early August as it drifted over and then to the south of Vermont. This strengthening resulted in renewed heavy rainfall and significant flash flooding.

Table 1. Rainfall Totals (in inches) at select locations for the period July 15-August 14, 2008

<table>
<thead>
<tr>
<th>Location</th>
<th>Rainfall (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mt Mansfield (Lamoille County)</td>
<td>14.33</td>
</tr>
<tr>
<td>South Lincoln (Addison County)</td>
<td>14.05</td>
</tr>
<tr>
<td>Corinth (Orange County)</td>
<td>13.28</td>
</tr>
<tr>
<td>East Haven (Essex County)</td>
<td>12.92</td>
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<tr>
<td>Worcester (Washington County)</td>
<td>12.84</td>
</tr>
<tr>
<td>Montpelier (Washington County)</td>
<td>12.46</td>
</tr>
<tr>
<td>Sutton (Caledonia County)</td>
<td>12.21</td>
</tr>
<tr>
<td>Saint Johnsbury (Caledonia County)</td>
<td>11.77</td>
</tr>
<tr>
<td>Island Pond (Essex County)</td>
<td>11.77</td>
</tr>
<tr>
<td>Jay Peak (Orleans County)</td>
<td>11.69</td>
</tr>
<tr>
<td>Bethel (Windsor County)</td>
<td>9.08</td>
</tr>
</tbody>
</table>

Figure 1. Rainfall Amounts for the 30-Day period ending August 17. Areas in purple indicate rainfall in excess of 10 inches.
Specific Events

July 18 – Severe Thunderstorms
Severe thunderstorms impacted a number of locations on July 18th as the large scale storm system was becoming established. Three areas were particularly hard hit. The first was the area in Grand Isle and Franklin Counties, from Isle La Motte east to St Albans and Georgia where straight line winds estimated at 70 to 80 mph, especially over Isle La Motte, caused considerable damage to trees and homes.

Another severe thunderstorm, likely producing winds in the 50 to 70 mph range caused damage to trees, cornfields and at least one home under renovation in Addison County.
The most significant severe thunderstorm occurred across parts of Lamoille County, from near North Cambridge to just south of Waterville. A storm survey determined that the bulk of the damage was due to straight line winds in the 70 to 90 mph range which downed many hundreds of trees in a swath up to ½ mile wide and nearly 8 miles long. Several structures were also damaged. Isolated pockets of damage indicate the occurrence of a brief tornado touchdown, rated EF-1 on the Enhanced Fujita Scale, with winds around 100 mph. The last tornados in Vermont happened in July 2003 across Bennington and Windham Counties.

Figure 3. Damage swath for the severe thunderstorm in Lamoille County. Dark gray shading indicates areas with winds estimated to be 50-70 mph. Light gray shaded areas indicate areas that likely experienced winds of 70 to 90 mph.
July 23-24 – Widespread Rainfall & Flooding

After several days in which scattered thunderstorms produced localized heavy rainfall each afternoon and evening across the state, a widespread moderate to heavy rainfall occurred. Total rainfall over the two days ranged from 2 to 4 inches across a large part of Vermont. Rivers and streams that were already running well above normal due to the antecedent rains, were pushed over bank-full in a number of locations. The Lamoille River at Johnson peaked 1.8 feet above flood stage, resulting in the closure of the Wrong-Way Bridge along Route 15 and the Missisquoi River at North Troy 0.8 feet above flood stage. Other flooding of streams and smaller rivers occurred across Washington, Orleans, Lamoille, and Caledonia Counties which resulted in some road closures along Routes 122, 14 and 100. In addition, a bridge and road were washed out at the Mt Norris Scout Camp temporarily stranding a large group of Boy Scouts.
July 31-August 3 – Repeated thunderstorms and heavy rainfall

During the early overnight hours of July 31st, a band of strong to severe thunderstorms moved across the northern half of the state, producing locally heavy rainfall and minor wind damage. Areas hardest impacted with 1 to 1 1/2 inches of rain in a short period of time included Addison, Orange, Washington and Caledonia Counties. Due to the antecedent heavy rainfall of the previous two weeks, this amount of rainfall resulted in significantly more impact than it normally would. Some of the more significant flooding occurred in the Barre and Montpelier area where culverts overflowed or were significantly damaged along Routes 2, 14 and 302.

Late in the day and into the evening of August 1, additional thunderstorms affected nearly the same region with another 1/2 to 1 inch of rainfall. Particularly hard hit was Washington County, where upwards of 1 1/2 to 2 inches of rain occurred near Berlin which resulted in washouts of several roads.
Thunderstorms redeveloped during the afternoon of August 2, and brought more heavy rainfall and additional flooding. This time the heavy rainfall was more widespread, with some locations across northeast Vermont receiving rainfall in excess of 2 inches. Washington County was again hard hit, with widespread rainfall approaching 1 inch. This rain, on top of what had fallen the previous few days, caused additional damage with numerous reports of road washouts in Moretown, Duxbury and Middlesex. Heavy rainfall in portions of Rutland County also resulted in flooding damage due to a beaver dam collapse in Wallingford along Route 140. Flash flooding also occurred along the Hyde Park/Johnson town line in Lamoille County which washed out part of a road and isolated nearly a dozen residences.

August 3rd featured another round of showers and thunderstorms across primarily the northern half of Vermont. The heaviest totals of ½ to 1 inch occurred across Addison, Chittenden, Franklin and Orleans counties. Water was reported to be covering Route 5 in Derby.

Figure 6. Total Rainfall from 7am August 2 to 7 am August 3.
August 6-7 - Significant Flash Flooding

As the storm system intensified over the northeast, widespread rain and thunderstorms impacted much of the state. Particularly hard hit on August 6th was Addison County where 3 to 5 inches of rain fell in a few hours. Severe damage was reported in many towns, including Hancock, Leicester and Ripton where roads and highways such as Routes 100 and 125 were closed for sometime.

Additional heavy rainfall on the order of 2 to 3 inches fell across portions of Caledonia County, and damage was reported in Danville and West Barnet where several roads were washed out. Routes 2 and 15 around Danville were also impacted. Isolated flash flooding was reported in Brandon (Rutland County) and Stockbridge (Windsor County).

On August 7th, the focus for the worst flash flooding was Orange and Washington Counties where upwards of 3 inches of rain occurred in slow moving thunderstorms during the afternoon and evening. Water flowed over many roads in the towns of Chelsea, Corinth and Montpelier forcing them to be closed. Isolated locations, such as Troy (Orleans County) and Ferrisburgh (Addison County) also suffered flash flooding damage from heavy but local rainfall. Officials in Ferrisburgh reported 2 to 3 inches in less than an hour that resulted in several roads being washed out along with a small landslide on private property near Button Bay.

Figure 7. Total Rainfall from 7am August 6 to 7am August 7.
August 10-12 – Scattered Severe Thunderstorms & Isolated Flooding

Due to the proximity of the storm system, unsettled conditions continued with daily showers and thunderstorms developing across the state. These thunderstorms primarily produced hail and locally heavy downpours. Local rainfall of 1½ to 2 inches in a short period of time resulted in flash flooding on the afternoon of August 10th around Middletown Springs (Rutland County) where water covered portions of Route 133. During the late evening of August 11th, slow moving thunderstorms produced an estimated 1 to 2 inches of rain across portions of Washington and Lamoille Counties, and flood advisories were issued although no significant flash flooding was reported.
STATE OF VERMONT
REQUEST FOR GRANT ACCEPTANCE FORM AA-1

1. Date: 9/23/2008
2. Agency: Transportation
3. Department: Operations
4. Program: Public Assistance Program
5. Type of Grant: [X] New [ ] Supplemental [ ] Renewal [ ] Modification
6. Legal Title of Grant: Disaster Assistance Grant FEMA-1790-DR-VT
7. Federal Catalog No.: 97-036
8. Grantor and Office/Address:
   Federal Emergency Management Agency
   99 High Street
   Boston, MA 02109-4595
9. State Grant Administrator:
   Agency of Transportation
   Operations Division
10. Grant Period: From: July 21, 2008 To: Completion
11. Purpose of Grant: (attach additional sheets if needed)
   To provide federal disaster assistance to repair damage to public facilities; state, local and non-profit, caused by the storms from July 21 to August 12, 2008. See attached pages.
12. Impact on Existing Programs if Grant is not Accepted:
   State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities, road, and bridges; the cost of debris removal; and for emergency response.
13. Budget Information: (Expenditures expected to occur in FY09 – FY10)

   EXPENDITURES:
   Statutory Administrative Costs 40,251.95
   Other (recovery costs - estimated) 1,205,148.00
   TOTAL $1,245,399.95

   REVENUES
   State Funds (Estimates - see attached schedule)
     Emergency Relief and Assistance Fund 162,694.98
   Federal Funds: (Federal share is 75% of the total damage estimate)
     Federal Projects 903,861.00
     Federal Administrative 40,251.95
   Other Funds: (Estimates - see attached schedule)
     Local government 138,592.02
   TOTAL $1,245,399.95

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

<table>
<thead>
<tr>
<th>DEPT ID</th>
<th>Program</th>
<th>Fund</th>
<th>Amount</th>
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<td>59700</td>
<td>21555</td>
<td>$162,694.98</td>
</tr>
</tbody>
</table>

REVENUES
State Funds (Estimates - see attached schedule)
- Emergency Relief and Assistance Fund $162,694.98

Federal Funds: (Federal share is 75% of the total damage estimate)
- Federal Projects $903,861.00
- Federal Administrative $40,251.95

Other Funds: (Estimates - see attached schedule)
- Local government $138,592.02

TOTAL $1,245,399.95

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

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<td>$162,694.98</td>
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REVENUES
State Funds (Estimates - see attached schedule)
- Emergency Relief and Assistance Fund $162,694.98

Federal Funds: (Federal share is 75% of the total damage estimate)
- Federal Projects $903,861.00
- Federal Administrative $40,251.95

Other Funds: (Estimates - see attached schedule)
- Local government $138,592.02

TOTAL $1,245,399.95

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

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REVENUES
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<tr>
<td>8100005500</td>
<td>59700</td>
<td>21555</td>
<td>$162,694.98</td>
</tr>
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</table>
14. Will grant monies be spent on one or more personal service contracts?
   [ ] YES  [X] NO

   If YES, signature of appointing authority here indicates intent to follow current guidelines for bidding.

15a. Please list any requested Limited Service positions:

<table>
<thead>
<tr>
<th>Titles</th>
<th>Number of Positions</th>
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</thead>
<tbody>
<tr>
<td>NONE</td>
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</tbody>
</table>

   TOTAL

15b. Equipment and space for these positions:
   [ ] Is presently available.
   [ ] Can be obtained with available funds.

16. Signature of Appointing Authority

   I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant.

   [Signature]  9/24/08

17. Action by Governor:
   [ ] Approved
   [ ] Rejected

18. Secretary of Administration:
   [ ] Request to JFO
   [ ] Information to JFO

19. Action by Joint Fiscal Committee:
   [ ] Request to be placed on JFC agenda
   [ ] Approved (not placed on agenda in 30 days)
   [ ] Approved by JFC
   [ ] Rejected by JFC
   [ ] Approved by Legislature

   [Signature]  (Dates)
FEMA-1790-DR-VT  July 21 to August 12, 2008

<table>
<thead>
<tr>
<th>Town</th>
<th>Total Damage</th>
<th>FEMA Assistance</th>
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<td>Addison</td>
<td>$451,266.00</td>
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<td>$15,072.28</td>
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<tr>
<td>Caledonia</td>
<td>$287,900.00</td>
<td>$215,925.00</td>
<td>$9,615.86</td>
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<td>$4,540.20</td>
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<td>Lamoille</td>
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<td>$107,775.00</td>
<td>$4,799.58</td>
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<tr>
<td>Orange</td>
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<td>$85,287.75</td>
<td>$3,798.15</td>
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<tr>
<td>Washington</td>
<td>$296,502.00</td>
<td>$222,376.50</td>
<td>$9,903.17</td>
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<tr>
<td>Windsor</td>
<td>$227,395.00</td>
<td>$170,546.25</td>
<td>$7,594.99</td>
</tr>
</tbody>
</table>

$1,205,148.00  $903,861.00  $40,251.95

$903,861.00 = Total FEMA support to applicants
$40,251.95 = Total Administrative support to State
$944,112.95 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF
ERAF: $162,694.98

Applicant Share: $138,592.02

Total (federal, state, & local): $1,245,399.95

Error corrected 10/16/08
STATE OF VERMONT
GRANT ACCEPTANCE FORM

DATE: October 16, 2008

DEPARTMENT: AOT - Operations

GRANT/DONATION (brief description and purpose):

FEMA Disaster Assistance Grant FEMA-1790-DR-VT
July 21 to August 12 storms – Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties. Statewide for hazard mitigation only.

GRANTOR/DONOR: FEMA

GRANT PERIOD: N/A

AMOUNT/VALUE: $1,297,634.73

POSITIONS REQUESTED (LIMITED SERVICE): 0

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None

COMMENTS:

State match of $223,615.89 will be needed. (ERAF).
Total Federal funds is $1,297,634.73 (75% of current damage estimate plus $55,324.23 administrative.)

DEPT. FINANCE AND MANAGEMENT: (INITIAL)
SECRETARY OF ADMINISTRATION: (INITIAL)
SENT TO JOINT FISCAL OFFICE: (DATE) 10/31/08

RECEIVED
OCT 30 2008
JOINT FISCAL OFFICE
STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE  (Form AA-1)

BASIC GRANT INFORMATION

1. Agency: Transportation
2. Department: Operations
3. Program: Public Assistance
4. Legal Title of Grant: Disaster Assistance Grant
   FEMA 1790-DR-VT
5. Federal Catalog #: 97-036
6. Grant/Donor Name and Address:
   Federal Emergency Management Agency
   99 High Street
   Boston, MA 02109-4595
8. Purpose of Grant:
   To provide federal disaster assistance to repair damage to public facilities (state, local, and non-profit) caused
   by storms from July 21 to August 12, 2008.
9. Impact on existing program if grant is not Accepted:
   State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public
   facilities (roads, bridges, buildings), debris removal, and emergency response.

10. BUDGET INFORMATION

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<td>$427,935</td>
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<td>$427,935</td>
<td>$427,934</td>
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</tr>
</tbody>
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| Revenues: | | | |
| State Funds: | $111,808 | $55,904 | $55,904 |
| Cash | $ | $ | $ |
| In-Kind | $ | $ | $ |
| Federal Funds: | $648,817 | $324,409 | $324,409 |
| (Direct Costs) | $ | $ | $ |
| (Statewide Indirect) | $ | $ | $ |
| (Departmental Indirect) | $ | $ | $ |
| Other Funds: | $ | $ | $ |
| Grant (source Local share) | $95,244 | $47,622 | $47,622 |
| Total | $855,869 | $427,935 | $427,934 |

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<td>$223,616</td>
</tr>
</tbody>
</table>
STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE

PERSONAL SERVICE INFORMATION

11. Will monies from this grant be used to fund one or more Personal Service Contracts? Yes ☐ No ☒
If “Yes”, appointing authority must initial here to indicate intent to follow current competitive bidding.

Appointing Authority Name: Agreed by: (initial)

12. Limited Service Position Information:

<table>
<thead>
<tr>
<th># Positions</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Total Positions: 0

12a. Equipment and space for these positions: ☐ Is presently available. ☐ Can be obtained with available funds.

13. AUTHORIZATION AGENCY/DEPARTMENT

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee Approval of this grant:

Signature: Date: 10/16/2008
Title: Secretary of Transportation

14. ACTION BY GOVERNOR

☐ Check One Box: Accepted

(Governor’s signature) Date: 10/24/08

15. SECRETARY OF ADMINISTRATION

☐ Check One Box: Request to JFO

(Secretary’s signature or designee) Date: 10/21/08

16. DOCUMENTATION REQUIRED

Required GRANT Documentation

- Request Memo
- Dept. project approval (if applicable)
- Notice of Award
- Grant Agreement
- Grant Budget
### FEMA-1790-DR-VT  July 21 to August 12, 2008

#### Damage (from PDA)

<table>
<thead>
<tr>
<th>Town</th>
<th>Total</th>
<th>FEMA</th>
<th>Administrative</th>
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<td>$227,395.00</td>
<td>$170,546.25</td>
<td>$7,594.99</td>
</tr>
</tbody>
</table>

$1,656,414.00  $1,242,310.50  $55,324.23

- $1,242,310.50 = Total FEMA support to applicants
- $55,324.23 = Total Administrative support to State
- $1,297,634.73 = Total anticipated FEMA Support for PA

#### State Funds (ERAF):  Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF

- ERAF: $223,615.89
- Applicant Share: $190,487.61
- Total (federal, state, & local): $1,711,738.23
To: Neale Lunderville, Secretary of Administration
   (Governor's Authorized Representative, FEMA PA Program)

From: Alec Portalupi, State Public Assistance Officer, FEMA PA Program

Date: September 23, 2008

Subject: FEMA 1790-DR-VT (July 21 to August 12, 2008 storms)

We are requesting your approval and signature on the attached documents for the State to apply for and receive federal assistance under the subject federal disaster declaration.

If you have any questions about these documents or need additional information, please contact Alec Portalupi at 828-3889. Thank you.

Attachments

Standard Form 424
State of Vermont Form AA-1
Various Correspondence between State and FEMA Region 1
PA-01-VT-1790

Applicant Name: Vermont Agency of Transportation
Application Title: SF-424 for Disaster Number 1790
Period of Performance Start: 09-12-2008

Grant Application - SF424

APPLICATION FOR FEDERAL ASSISTANCE

1. TYPE OF SUBMISSION
   N/A

2. DATE SUBMITTED
   09-18-2008

3. DATE RECEIVED BY STATE
   N/A

4. DATE RECEIVED BY FEDERAL AGENCY
   N/A

5. APPLICANT INFORMATION

   Legal Name: Vermont Agency of Transportation
   Organizational Unit: Vermont Agency of Transportation
   Address: One National Life Drive
   City: Montpelier
   State: VT
   Zip Code: 05633-5001
   Country: United States of America

6. FEDERAL EMPLOYER IDENTIFICATION NUMBER (EIN)
   03-6000274

7. TYPE OF APPLICANT
   State Government

8. TYPE OF APPLICATION
   Grant Application (SF-424)

9. NAME OF FEDERAL AGENCY
   Federal Emergency Management Agency

10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBERS
    97.036
    CFDA TITLES: PUBLIC ASSISTANCE

11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT
    N/A

12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.)
    Caledonia, Essex, Washington, Windsor, Addison, Orange, Lamoille, Statewide

13. PROPOSED PROJECT:
    Start Date: 
    End Date: 

14. CONGRESSIONAL DISTRICTS OF:
    a. Applicant: 
    b. Project: 

15. ESTIMATED FUNDING
    a. Federal $ 944113
    b. Applicant $ 0
    c. State $ 162895
    d. Local $ 136592
    e. Other $ 0
    f. Program income $ 0
    g. TOTAL $ 1245400

16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?
    N/A

17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?
    N/A

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS REQUIRED.

   a. Name of Authorized Representative
      Norman Portalupi
   b. Title
      State Public Assistance Officer
   c. Telephone Number
      802-828-3889
   d. Signature of Authorized Representative
   e. Date Signed 9-18-08
DECLARED SEPTEMBER 12, 2008

SUMMARY

In the event of a declaration, the following information applies:

STATE: Vermont
NUMBER: FEMA-1790-DR
INCIDENT: Severe Storms and Flooding
INCIDENT PERIOD: July 21 to August 12, 2008
DATE REQUESTED BY GOVERNOR: August 25, 2008
FEDERAL COORDINATING OFFICER: Philip E. Parr
National FCO Program

DESIGNATIONS AND TYPES OF ASSISTANCE:

INDIVIDUAL ASSISTANCE (Assistance to individuals and households):

None.

PUBLIC ASSISTANCE (Assistance to State and local governments and certain private nonprofit organizations for emergency work and the repair or replacement of disaster-damaged facilities):

Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties.

HAZARD MITIGATION GRANT PROGRAM (Assistance to State and local governments and certain private nonprofit organizations for actions taken to prevent or reduce long term risk to life and property from natural hazards):

All counties in the State of Vermont are eligible to apply for assistance under the Hazard Mitigation Grant Program.

OTHER: Additional designations may be made at a later date after further evaluation.
The Honorable George W. Bush  
President of the United States  
The White House  
Washington, D.C. 20500  

Through: Arthur W. Cleaves  
Regional Administrator  
FEMA Region I  
Boston, Massachusetts 02110  

Dear Mr. President:

Under the provisions of Section 401 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. §§ 5121-5206 (Stafford Act), and implemented by 44 CFR § 206.36, I request that you declare a major disaster for the State of Vermont as a result of excessive rainfall that caused flash flooding and extensive road damage in certain areas throughout the State on and from July 21, 2008 through August 12, 2008. The Vermont counties impacted to the highest degree of eligible damage include Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor. Initial damage estimates exceed $1.66 million dollars. The damage was widespread due to an extended storm system that impacted seven of Vermont’s fourteen counties.

In response to the situation, I have taken appropriate action under State law and directed the execution of the State Emergency Operations Plan through the Commissioner of the Department of Public Safety beginning on July 21, 2008 and continuing in operation through August 12, 2008 in accordance with Section 401 of the Stafford Act. In accordance with the State Emergency Operations Plan, the following State Agency Support functions were activated: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, Vermont Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, and the American Red Cross. The communities of Ferrisburgh, Leicester, Middlebury, Northfield, Ripton, Rochester, Troy, Williamstown and Wolcott, Vermont each requested a local declaration of emergency due to excessive damage to their public infrastructure.

The State of Vermont has a State Mitigation Plan that was approved by FEMA in November of 2007. Approximately 85% of Vermont communities have FEMA approved local mitigation plans with the rest in various forms of draft stages.
Joint Federal, State, and local surveys of the damaged areas were conducted several times between July 21 and August 12 in different counties of the state:

<table>
<thead>
<tr>
<th>County</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamoille</td>
<td>07/31/08</td>
</tr>
<tr>
<td>Caledonia</td>
<td>07/31/08</td>
</tr>
<tr>
<td>Washington</td>
<td>08/06/08</td>
</tr>
<tr>
<td>Addison</td>
<td>08/08/08</td>
</tr>
<tr>
<td>Orange</td>
<td>08/08/08</td>
</tr>
<tr>
<td>Essex</td>
<td>08/12/08</td>
</tr>
<tr>
<td>Windsor</td>
<td>08/14/08</td>
</tr>
</tbody>
</table>

Preliminary assessments by State and local officials indicated the most severe impacts were to town and state roads that received road damage by flash floods.

I have determined that this incident is of such severity and magnitude that effective response is beyond the capabilities of the State and the affected local governments and that supplementary Federal assistance is necessary. I am specifically requesting Federal assistance utilizing the following federal programs: Public Assistance for the counties of Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor, Vermont. The State of Vermont also requests that the Hazard Mitigation Grant Program (Section 404), available throughout the State.

Preliminary estimates of the types and amount of assistance needed under the Stafford Act are tabulated in Enclosure A.

The following information is furnished on the nature and amount of State and local resources that have been or will be used to alleviate the conditions of this disaster: The following State agencies were directed to provide immediate assistance as a result of flash flooding: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, State Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, Vermont National Guard and the American Red Cross. The flash flooding that devastated seven out of fourteen counties resulted from a storm system that according to the National Weather Service officially began on July 18, 2008 and went through August 12, 2008. A description of the storm system prepared by the National Weather Service office that serves most of Vermont is attached as Enclosure B. The damage from this storm that affected Vermont began on July 18 (FEMA-1784-DR), skipped a few days and then began again in earnest for the next three and a half weeks, between July 21 through August 12. Many communities were impacted several times and were not able to repair damaged infrastructure before the next storm cells caused additional damage. Some communities were in the process of recovering from another storm, FEMA-1778-DR, when they received additional damage from the latest storm.

Town and State road crews worked for several days to repair the damage to public roads and to open access routes for emergency vehicles several times. There was not much debris clean-up as most debris washed down the river systems. Unfortunately, two lives were lost as a result of the storms during this time period; one due to a house fire after being struck by lightening and in a separate incident, a boater was lost in stormy waters. Several private properties received major damage but did not meet the threshold to seek SBA Disaster Assistance or an IA declaration. Two camps with summer campers were evacuated due to
impassable and dangerous roads. Another summer camp also experienced destructive flash floods and heavy losses.

I certify that for this major disaster, the State and local governments will assume all applicable non-Federal share of costs required by the Stafford Act. Total state/local share expenditures are expected to exceed $414,000.

I have designated Barbara Farr, Director of Vermont Emergency Management, as the State Coordinating Officer for this request. Ms. Farr will work with the Federal Emergency Management Agency in damage assessments and may provide further information or justification on my behalf.

Sincerely,

James H. Douglas
Governor

Enclosures
### VTrans County Rollup: 21 July to 12 August 2008, Strong Winds, Heavy Rain, Flooding

<table>
<thead>
<tr>
<th>County</th>
<th>A - Debris Removal</th>
<th>B - Protective Measures</th>
<th>C - Roads &amp; Bridges</th>
<th>D - Water Control Facilities</th>
<th>E - Buildings &amp; Equipment</th>
<th>F - Utilities</th>
<th>G - Parks, Recreation</th>
<th>Total</th>
<th>Population</th>
<th>Per Capita</th>
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|               | 23,200            | 1,630,214               | 0                   | 0                           | 1,000                     | 2,000         | 1,656,414                      |

Prepared by A. Portalupi
08/25/2008

**ENCLOSURE A**
MEMORANDUM FOR: Barbara Farr, Director Vermont Emergency Management

FROM: Andy Nash, Meteorologist-in-Charge, National Weather Service Burlington VT

SUBJECT: Weather Summary – Significant Wet Period, July 18 to August 12, 2008

Summary
Beginning in mid July, a persistent atmospheric system developed across the eastern Great Lakes resulting in rounds of severe weather and heavy rainfall across a large portion of Vermont. This repeated rainfall resulted in many areas of the state, especially central and northeastern sections, enduring their wettest July on record. The system continued to strengthen into early August as it drifted over and then to the south of Vermont. This strengthening resulted in renewed heavy rainfall and significant flash flooding.

Table 1. Rainfall Totals (in inches) at select locations for the period July 15-August 14, 2008

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<thead>
<tr>
<th>Location</th>
<th>Rainfall (inches)</th>
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<td>Mt Mansfield (Lamoille County)</td>
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<td>11.69</td>
</tr>
<tr>
<td>Bethel (Windsor County)</td>
<td>9.08</td>
</tr>
</tbody>
</table>

Figure 1. Rainfall Amounts for the 30-Day period ending August 17. Areas in purple indicate rainfall in excess of 10 inches.
Figure 2. Weather maps depicting weekly evolution of the low pressure system between July 20 and August 16. The blues and dark purples indicate areas with lower than normal pressure.

Specific Events
July 18 – Severe Thunderstorms
Severe thunderstorms impacted a number of locations on July 18th as the large scale storm system was becoming established. Three areas were particularly hard hit. The first was the area in Grand Isle and Franklin Counties, from Isle La Motte east to St Albans and Georgia where straight line winds estimated at 70 to 80 mph, especially over Isle La Motte, caused considerable damage to trees and homes.

Another severe thunderstorm, likely producing winds in the 50 to 70 mph range caused damage to trees, cornfields and at least one home under renovation in Addison County.
The most significant severe thunderstorm occurred across parts of Lamoille County, from near North Cambridge to just south of Waterville. A storm survey determined that the bulk of the damage was due to straight line winds in the 70 to 90 mph range which downed many hundreds of trees in a swath up to 1/2 mile wide and nearly 8 miles long. Several structures were also damaged. Isolated pockets of damage indicate the occurrence of a brief tornado touchdown, rated EF-1 on the Enhanced Fujita Scale, with winds around 100 mph. The last tornados in Vermont happened in July 2003 across Bennington and Windham Counties.

Figure 3. Damage swath for the severe thunderstorm in Lamoille County. Dark gray shading indicates areas with winds estimated to be 50-70 mph. Light gray shaded areas indicate areas that likely experienced winds of 70 to 90 mph.
July 23-24 – Widespread Rainfall & Flooding

After several days in which scattered thunderstorms produced localized heavy rainfall each afternoon and evening across the state, a widespread moderate to heavy rainfall occurred. Total rainfall over the two days ranged from 2 to 4 inches across a large part of Vermont. Rivers and streams that were already running well above normal due to the antecedent rains, were pushed over bank-full in a number of locations. The Lamoille River at Johnson peaked 1.8 feet above flood stage, resulting in the closure of the Wrong-Way Bridge along Route 15 and the Missisquoi River at North Troy 0.8 feet above flood stage. Other flooding of streams and smaller rivers occurred across Washington, Orleans, Lamoille, and Caledonia Counties which resulted in some road closures along Routes 122, 14 and 100. In addition, a bridge and road were washed out at the Mt Norris Scout Camp temporarily stranding a large group of Boy Scouts.

Figure 4. Total Rainfall from 7am July 23 to 7am July 24.
July 31-August 3 – Repeated thunderstorms and heavy rainfall

During the early overnight hours of July 31st, a band of strong to severe thunderstorms moved across the northern half of the state, producing locally heavy rainfall and minor wind damage. Areas hardest impacted with 1 to 1½ inches of rain in a short period of time included Addison, Orange, Washington and Caledonia Counties. Due to the antecedent heavy rainfall of the previous two weeks, this amount of rainfall resulted in significantly more impact than it normally would. Some of the more significant flooding occurred in the Barre and Montpelier area where culverts overflowed or were significantly damaged along Routes 2, 14 and 302.

Late in the day and into the evening of August 1, additional thunderstorms affected nearly the same region with another ½ to 1 inch of rainfall. Particularly hard hit was Washington County, where upwards of 1½ to 2 inches of rain occurred near Berlin which resulted in washouts of several roads.
Thunderstorms redeveloped during the afternoon of August 2, and brought more heavy rainfall and additional flooding. This time the heavy rainfall was more widespread, with some locations across northeast Vermont receiving rainfall in excess of 2 inches. Washington County was again hard hit, with widespread rainfall approaching 1 inch. This rain, on top of what had fallen the previous few days, caused additional damage with numerous reports of road washouts in Moretown, Duxbury and Middlesex. Heavy rainfall in portions of Rutland County also resulted in flooding damage due to a beaver dam collapse in Wallingford along Route 140. Flash flooding also occurred along the Hyde Park/Johnson town line in Lamoille County which washed out part of a road and isolated nearly a dozen residences.

August 3rd featured another round of showers and thunderstorms across primarily the northern half of Vermont. The heaviest totals of ½ to 1 inch occurred across Addison, Chittenden, Franklin and Orleans counties. Water was reported to be covering Route 5 in Derby.

Figure 6. Total Rainfall from 7am August 2 to 7 am August 3.
**August 6-7 - Significant Flash Flooding**

As the storm system intensified over the northeast, widespread rain and thunderstorms impacted much of the state. Particularly hard hit on August 6th was Addison County where 3 to 5 inches of rain fell in a few hours. Severe damage was reported in many towns, including Hancock, Leicester and Ripton where roads and highways such as Routes 100 and 125 were closed for sometime.

Additional heavy rainfall on the order of 2 to 3 inches fell across portions of Caledonia County, and damage was reported in Danville and West Barnet where several roads were washed out. Routes 2 and 15 around Danville were also impacted. Isolated flash flooding was reported in Brandon (Rutland County) and Stockbridge (Windsor County).

On August 7th, the focus for the worst flash flooding was Orange and Washington Counties where upwards of 3 inches of rain occurred in slow moving thunderstorms during the afternoon and evening. Water flowed over many roads in the towns of Chelsea, Corinth and Montpelier forcing them to be closed. Isolated locations, such as Troy (Orleans County) and Ferrisburgh (Addison County) also suffered flash flooding damage from heavy but local rainfall. Officials in Ferrisburgh reported 2 to 3 inches in less than an hour that resulted in several roads being washed out along with a small landslide on private property near Button Bay.

*Figure 7. Total Rainfall from 7am August 6 to 7am August 7.*
August 10-12 — Scattered Severe Thunderstorms & Isolated Flooding

Due to the proximity of the storm system, unsettled conditions continued with daily showers and thunderstorms developing across the state. These thunderstorms primarily produced hail and locally heavy downpours. Local rainfall of 1½ to 2 inches in a short period of time resulted in flash flooding on the afternoon of August 10th around Middletown Springs (Rutland County) where water covered portions of Route 133. During the late evening of August 11th, slow moving thunderstorms produced an estimated 1 to 2 inches of rain across portions of Washington and Lamoille Counties, and flood advisories were issued although no significant flash flooding was reported.

Figure 8. Total Rainfall from 7am August 7 to 7am August 8.
Date: 9/23/2008

Agency: Transportation
Department: Operations
Program: Public Assistance Program

Legal Title of Grant: Disaster Assistance Grant
FEMA-1790-DR-VT

Type of Grant: [X] New [ ] Supplemental
[ ] Renewal [ ] Modification

Grantor and Office/Address:
Federal Emergency Management Agency
99 High Street
Boston, MA 02109-4595

State Grant Administrator:
Agency of Transportation
Operations Division

Grant Period: From: July 21, 2008 To: Completion

Purpose of Grant: (attach additional sheets if needed)
To provide federal disaster assistance to repair damage to public facilities; state, local and non-profit, caused by the storms from July 21 to August 12, 2008. See attached pages.

Impact on Existing Programs if Grant is not Accepted:
State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities, road, and bridges; the cost of debris removal; and for emergency response.

Budget Information: (Expenditures expected to occur in FY09 – FY10)

EXPENDITURES:
Statutory Administrative Costs
Other (recovery costs - estimated)
TOTAL

REVENUES
State Funds (Estimates - see attached schedule)
Emergency Relief and Assistance Fund
Federal Funds: (Federal share is 75% of the total damage estimate)
Federal Projects
Federal Administrative
Other Funds: (Estimates - see attached schedule)
Local government
TOTAL

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

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<tr>
<th>DEPT ID</th>
<th>Program</th>
<th>Fund</th>
<th>Amount</th>
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<td>8100005500</td>
<td>59700</td>
<td>21555</td>
<td>$162,694.98</td>
</tr>
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</table>
14. Will grant monies be spent on one or more personal service contracts?

[ ] YES  [X] NO

If YES, signature of appointing authority here indicates intent to follow current guidelines for bidding.

15a. Please list any requested Limited Service positions:

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<thead>
<tr>
<th>Titles</th>
<th>Number of Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL

15b. Equipment and space for these positions:

[ ] Is presently available.

[ ] Can be obtained with available funds.

16. Signature of Appointing Authority

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant.

(Signature)  (Date)

17. Action by Governor:

[ ] Approved  ________________

[ ] Rejected  (Signature)  (Date)

18. Secretary of Administration:

[ ] Request to JFO  ________________

[ ] Information to JFO  (Signature)  (Date)

19. Action by Joint Fiscal Committee:

[ ] Request to be placed on JFC agenda  ________________

[ ] Approved (not placed on agenda in 30 days)  ________________

[ ] Approved by JFC  ________________

[ ] Rejected by JFC  ________________

[ ] Approved by Legislature  ________________
FEMA-1790-DR-VT  July 21 to August 12, 2008

<table>
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$1,205,148.00 = Total from PDA

903,861.00 = Total FEMA support to applicants

$40,251.95 = Total Administrative support to State

944,112.95 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF

ERAF: $162,694.98

Applicant Share: $138,592.02

Total (federal, state, & local): $1,245,399.95

error corrected 10/16/08
STATE OF VERMONT
REQUEST FOR GRANT ACCEPTANCE FORM AA-1

Additional Information:
DATE: October 16, 2008

DEPARTMENT: AOT - Operations

GRANT/DONATION (brief description and purpose):

FEMA Disaster Assistance Grant FEMA-1790-DR-VT
July 21 to August 12 storms — Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties. Statewide for hazard mitigation only.

GRANTOR/DONOR: FEMA

GRANT PERIOD: N/A

AMOUNT/VALUE: $1,297,634.73

POSITIONS REQUESTED (LIMITED SERVICE): 0

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None

COMMENTS:

State match of $223,615.89 will be needed. (ERAF).

Total Federal funds is $1,297,634.73 (75% of current damage estimate plus $55,324.23 administrative.)
## STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE
(Form AA-1)

### BASIC GRANT INFORMATION

1. **Agency:** Transportation  
2. **Department:** Operations  
3. **Program:** Public Assistance  
4. **Legal Title of Grant:** Disaster Assistance Grant  
   FEMA 1790-DR-VT  
5. **Federal Catalog #:** 97-036  
6. **Grant/Donor Name and Address:** Federal Emergency Management Agency  
   99 High Street  
   Boston, MA 02109-4595  
7. **Grant Period:**  
   - **From:** 7/21/2008  
   - **To:** 7/21/2012  
8. **Purpose of Grant:**  
   To provide federal disaster assistance to repair damage to public facilities (state, local, and non-profit) caused by storms from July 21 to August 12, 2008.  
9. **Impact on existing program if grant is not Accepted:**  
   State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities (roads, bridges, buildings), debris removal, and emergency response.

### 10. BUDGET INFORMATION

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<tr>
<td>(Departmental Indirect)</td>
<td>$</td>
<td>$</td>
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<tr>
<td>Other Funds</td>
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<td>$</td>
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<td>$47,622</td>
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<td><strong>$427,934</strong></td>
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<td>$1,297,635</td>
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<td>8100005500-59700-21555</td>
<td>$223,616</td>
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STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

PERSONAL SERVICE INFORMATION

11. Will monies from this grant be used to fund one or more Personal Service Contracts? ☐ Yes ☒ No
If “Yes”, appointing authority must initial here to indicate intent to follow current competitive bidding

Appointing Authority Name: __________________________ Agreed by: __________________________ (initial)

12. Limited Service Position Information:

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Total Positions 0

12a. Equipment and space for these positions: ☐ Is presently available. ☐ Can be obtained with available funds.

13. AUTHORIZATION AGENCY/DEPARTMENT

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee Approval of this grant:

Signature: __________________________ Date: 10/16/2008

Title: Secretary of Transportation

Signature: __________________________ Date: __________

Title: __________________________

14. ACTION BY GOVERNOR

☐ Check One Box:
   ☐ Accepted (Governor’s signature) Date: 10/24/08
   ☐ Rejected

15. SECRETARY OF ADMINISTRATION

☐ Check One Box:
   ☐ Request to JFO (Secretary’s signature or designee) Date: 10/24/08
   ☐ Information to JFO

16. DOCUMENTATION REQUIRED

Required GRANT Documentation

☐ Request Memo
☐ Dept. project approval (if applicable)
☐ Notice of Award
☐ Grant Agreement
☐ Grant Budget

☐ Request Memo
☐ Dept. project approval (if applicable)
☐ Notice of Donation (if any)
☐ Grant (Project) Timeline (if applicable)
☐ Request for Extension (if applicable)
### FEMA-1790-DR-VT  July 21 to August 12, 2008

#### Damage (from PDA)

<table>
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<th>Town</th>
<th>Total</th>
<th>FEMA</th>
<th>Administrative</th>
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<td>Essex</td>
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<td>Lamoille</td>
<td>$143,700.00</td>
<td>$107,775.00</td>
<td>$4,799.58</td>
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<td>Orange</td>
<td>$113,717.00</td>
<td>$85,287.75</td>
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<td>Washington</td>
<td>$296,502.00</td>
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<td>$9,903.17</td>
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<td>Windsor</td>
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<td>$7,594.99</td>
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$1,656,414.00 = Total FEMA support to applicants  
$55,324.23 = Total Administrative support to State  
$1,297,634.73 = Total anticipated FEMA Support for PA

#### State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF

ERAF: $223,615.89

Applicant Share: $190,487.61

Total (federal, state, & local): $1,711,738.23
To: Neale Lunderville, Secretary of Administration  
(Governor’s Authorized Representative, FEMA PA Program)  
via David Dill, Secretary of Transportation

From: Alec Portalupi, State Public Assistance Officer, FEMA PA Program

Date: September 23, 2008

Subject: FEMA 1790-DR-VT (July 21 to August 12, 2008 storms)

We are requesting your approval and signature on the attached documents for the State to apply for and receive federal assistance under the subject federal disaster declaration.

If you have any questions about these documents or need additional information, please contact Alec Portalupi at 828-3889. Thank you.

Attachments

Standard Form 424  
State of Vermont Form AA-1  
Various Correspondence between State and FEMA Region 1
<table>
<thead>
<tr>
<th>Federal Emergency Management Agency E-Grants</th>
</tr>
</thead>
</table>
| PA-01-VT-1790  
Applicant Name: Vermont Agency of Transportation  
Application Title: SF-424 for Disaster Number 1790  
Period of Performance Start: 09-12-2008 |

**Grant Application - SF424**

### APPLICATION FOR FEDERAL ASSISTANCE

<table>
<thead>
<tr>
<th>1. TYPE OF SUBMISSION</th>
<th>Pre-Application</th>
<th>Application Identifier</th>
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<table>
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<th>2. DATE SUBMITTED</th>
<th>09-18-2008</th>
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<table>
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<th>3. DATE RECEIVED BY STATE</th>
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<table>
<thead>
<tr>
<th>4. DATE RECEIVED BY FEDERAL AGENCY</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>5. APPLICANT INFORMATION</th>
</tr>
</thead>
</table>
| Legal Name: Vermont Agency of Transportation  
Organizational DUNS: 809370296-  
Address: One National Life Drive  
City: Montpelier  
County: Washington  
State: VT  
Zip Code: 05633 - 5001  
Country: United States of America |

### 6. FEDERAL EMPLOYER IDENTIFICATION NUMBER (EIN)

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<tr>
<th>Federal EIN: 03-6000274</th>
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<table>
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<th>7. TYPE OF APPLICANT</th>
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<table>
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<th>8. TYPE OF APPLICATION</th>
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</thead>
<tbody>
<tr>
<td>Grant Application (SF-424)</td>
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</tbody>
</table>

<table>
<thead>
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<th>9. NAME OF FEDERAL AGENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Emergency Management Agency</td>
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</table>

### 10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBERS

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<tr>
<th>CFDA TITLES: PUBLIC ASSISTANCE</th>
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<tr>
<td>97.036</td>
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### 11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT

<table>
<thead>
<tr>
<th>N/A</th>
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</table>

### 12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.)

<table>
<thead>
<tr>
<th>Caledonia, Essex, Washington, Windsor, Addison, Orange, Lamoille, Statewide</th>
</tr>
</thead>
</table>

### 13. PROPOSED PROJECT:

| Start Date:  
End Date: |
|-----------|

### 14. CONGRESSIONAL DISTRICTS OF:

| a. Applicant:  
b. Project: |
|-------------|

### 15. ESTIMATED FUNDING

<table>
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<th>a. Federal</th>
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<tr>
<td>b. Applicant</td>
<td>$ 0</td>
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<tr>
<td>c. State</td>
<td>$ 162995</td>
</tr>
<tr>
<td>d. Local</td>
<td>$ 138592</td>
</tr>
<tr>
<td>e. Other</td>
<td>$ 0</td>
</tr>
<tr>
<td>f. Program Income</td>
<td>$ 0</td>
</tr>
<tr>
<td>g. TOTAL</td>
<td>$ 1245400</td>
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### 16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?

<table>
<thead>
<tr>
<th>N/A</th>
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</table>

### 17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?

<table>
<thead>
<tr>
<th>N/A</th>
</tr>
</thead>
</table>

### 18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS REQUIRED.

| a. Name of Authorized Representative: Norman Portalupi  
b. Title: State Public Assistance Officer  
c. Telephone Number: 802-828-3889  
d. Signature of Authorized Representative |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E. Date Signed: 9-18-08</td>
</tr>
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</table>

https://isource.fema.net/emmie/internalIntegration?applicationId=3937  
9/17/2008
DECLARED SEPTEMBER 12, 2008

SUMMARY

In the event of a declaration, the following information applies:

STATE: Vermont

NUMBER: FEMA-1790-DR

INCIDENT: Severe Storms and Flooding

INCIDENT PERIOD: July 21 to August 12, 2008

DATE REQUESTED BY GOVERNOR: August 25, 2008

FEDERAL COORDINATING OFFICER: Philip E. Parr
National FCO Program

DESIGNATIONS AND TYPES OF ASSISTANCE:

INDIVIDUAL ASSISTANCE (Assistance to individuals and households):

None.

PUBLIC ASSISTANCE (Assistance to State and local governments and certain private nonprofit organizations for emergency work and the repair or replacement of disaster-damaged facilities):

Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties.

HAZARD MITIGATION GRANT PROGRAM (Assistance to State and local governments and certain private nonprofit organizations for actions taken to prevent or reduce long term risk to life and property from natural hazards):

All counties in the State of Vermont are eligible to apply for assistance under the Hazard Mitigation Grant Program.

OTHER: Additional designations may be made at a later date after further evaluation.
August 25, 2008

The Honorable George W. Bush
President of the United States
The White House
Washington, D.C. 20500

Through: Arthur W. Cleaves
Regional Administrator
FEMA Region I
Boston, Massachusetts 02110

Dear Mr. President:

Under the provisions of Section 401 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. §§ 5121-5206 (Stafford Act), and implemented by 44 CFR § 206.36, I request that you declare a major disaster for the State of Vermont as a result of excessive rainfall that caused flash flooding and extensive road damage in certain areas throughout the State on and from July 21, 2008 through August 12, 2008. The Vermont counties impacted to the highest degree of eligible damage include Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor. Initial damage estimates exceed $1.66 million dollars. The damage was widespread due to an extended storm system that impacted seven of Vermont’s fourteen counties.

In response to the situation, I have taken appropriate action under State law and directed the execution of the State Emergency Operations Plan through the Commissioner of the Department of Public Safety beginning on July 21, 2008 and continuing in operation through August 12, 2008 in accordance with Section 401 of the Stafford Act. In accordance with the State Emergency Operations Plan, the following State Agency Support functions were activated: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, Vermont Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, and the American Red Cross. The communities of Ferrisburgh, Leicester, Middlebury, Northfield, Ripton, Rochester, Troy, Williamstown and Wolcott, Vermont each requested a local declaration of emergency due to excessive damage to their public infrastructure.

The State of Vermont has a State Mitigation Plan that was approved by FEMA in November of 2007. Approximately 85% of Vermont communities have FEMA approved local mitigation plans with the rest in various forms of draft stages.
Honorable George W. Bush  
August 25, 2008  
Page 2

Joint Federal, State, and local surveys of the damaged areas were conducted several times between July 21 and August 12 in different counties of the state:

- Lamoille 07/31/08
- Caledonia 07/31/08
- Washington 08/06/08
- Addison 08/08/08

- Orange 08/08/08
- Essex 08/12/08
- Windsor 08/14/08

Preliminary assessments by State and local officials indicated the most severe impacts were to town and state roads that received road damage by flash floods.

I have determined that this incident is of such severity and magnitude that effective response is beyond the capabilities of the State and the affected local governments and that supplementary Federal assistance is necessary. I am specifically requesting Federal assistance utilizing the following federal programs: Public Assistance for the counties of Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor, Vermont. The State of Vermont also requests that the Hazard Mitigation Grant Program (Section 404), available throughout the State.

Preliminary estimates of the types and amount of assistance needed under the Stafford Act are tabulated in Enclosure A.

The following information is furnished on the nature and amount of State and local resources that have been or will be used to alleviate the conditions of this disaster: The following State agencies were directed to provide immediate assistance as a result of flash flooding: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, State Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, Vermont National Guard and the American Red Cross. The flash flooding that devastated seven out of fourteen counties resulted from a storm system that according to the National Weather Service officially began on July 18, 2008 and went through August 12, 2008. A description of the storm system prepared by the National Weather Service office that serves most of Vermont is attached as Enclosure B. The damage from this storm that affected Vermont began on July 18 (FEMA-1784-DR), skipped a few days and then began again in earnest for the next three and a half weeks, between July 21 through August 12. Many communities were impacted several times and were not able to repair damaged infrastructure before the next storm cells caused additional damage. Some communities were in the process of recovering from another storm, FEMA-1778-DR, when they received additional damage from the latest storm.

Town and State road crews worked for several days to repair the damage to public roads and to open access routes for emergency vehicles several times. There was not much debris clean-up as most debris washed down the river systems. Unfortunately, two lives were lost as a result of the storms during this time period; one due to a house fire after being struck by lightening and in a separate incident, a boater was lost in stormy waters. Several private properties received major damage but did not meet the threshold to seek SBA Disaster Assistance or an IA declaration. Two camps with summer campers were evacuated due to
impassable and dangerous roads. Another summer camp also experienced destructive flash floods and heavy losses.

I certify that for this major disaster, the State and local governments will assume all applicable non-Federal share of costs required by the Stafford Act. Total state/local share expenditures are expected to exceed $414,000.

I have designated Barbara Farr, Director of Vermont Emergency Management, as the State Coordinating Officer for this request. Ms. Farr will work with the Federal Emergency Management Agency in damage assessments and may provide further information or justification on my behalf.

Sincerely,

James H. Douglas
Governor

Enclosures
## VTrans County Rollup: 21 July to 12 August 2008, Strong Winds, Heavy Rain, Flooding

<table>
<thead>
<tr>
<th>County</th>
<th>A - Debris Removal</th>
<th>B - Protective Measures</th>
<th>C - Roads &amp; Bridges</th>
<th>D - Water Control Facilities</th>
<th>E - Buildings &amp; Equipment</th>
<th>F - Utilities</th>
<th>G - Parks, Recreation</th>
<th>Total</th>
<th>Population</th>
<th>Per Capita</th>
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<tbody>
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<td>440,085</td>
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<td>451,268</td>
<td>35,974</td>
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<td>CALEDONIA</td>
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<td>287,900</td>
<td>29,702</td>
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<td>2,000</td>
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<td>1,656,414</td>
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</table>

Prepared by A. Portalupi
08/25/2008

ENCLOSURE A
MEMORANDUM FOR: Barbara Farr, Director Vermont Emergency Management

FROM: Andy Nash, Meteorologist-in-Charge, National Weather Service Burlington VT

SUBJECT: Weather Summary – Significant Wet Period, July 18 to August 12, 2008

Summary

Beginning in mid July, a persistent atmospheric system developed across the eastern Great Lakes resulting in rounds of severe weather and heavy rainfall across a large portion of Vermont. This repeated rainfall resulted in many areas of the state, especially central and northeastern sections, enduring their wettest July on record. The system continued to strengthen into early August as it drifted over and then to the south of Vermont. This strengthening resulted in renewed heavy rainfall and significant flash flooding.

Table 1. Rainfall Totals (in inches) at select locations for the period July 15-August 14, 2008

<table>
<thead>
<tr>
<th>Location</th>
<th>Rainfall Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mt Mansfield (Lamoille County)</td>
<td>14.33</td>
</tr>
<tr>
<td>South Lincoln (Addison County)</td>
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<td>Corinth (Orange County)</td>
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<td>East Haven (Essex County)</td>
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<tr>
<td>Worcester (Washington County)</td>
<td>12.84</td>
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<tr>
<td>Montpelier (Washington County)</td>
<td>12.46</td>
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<tr>
<td>Sutton (Caledonia County)</td>
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<tr>
<td>Saint Johnsbury (Caledonia County)</td>
<td>11.77</td>
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<tr>
<td>Island Pond (Essex County)</td>
<td>11.77</td>
</tr>
<tr>
<td>Jay Peak (Orleans County)</td>
<td>11.69</td>
</tr>
<tr>
<td>Bethel (Windsor County)</td>
<td>9.08</td>
</tr>
</tbody>
</table>

Figure 1. Rainfall Amounts for the 30-Day period ending August 17. Areas in purple indicate rainfall in excess of 10 inches.
Weather maps depicting weekly evolution of the low pressure system between July 20 and August 16. The blues and dark purples indicate areas with lower than normal pressure.

Specific Events

July 18 – Severe Thunderstorms
Severe thunderstorms impacted a number of locations on July 18th as the large scale storm system was becoming established. Three areas were particularly hard hit. The first was the area in Grand Isle and Franklin Counties, from Isle La Motte east to St Albans and Georgia where straight line winds estimated at 70 to 80 mph, especially over Isle La Motte, caused considerable damage to trees and homes.

Another severe thunderstorm, likely producing winds in the 50 to 70 mph range caused damage to trees, cornfields and at least one home under renovation in Addison County.
The most significant severe thunderstorm occurred across parts of Lamoille County, from near North Cambridge to just south of Waterville. A storm survey determined that the bulk of the damage was due to straight line winds in the 70 to 90 mph range which downed many hundreds of trees in a swath up to ½ mile wide and nearly 8 miles long. Several structures were also damaged. Isolated pockets of damage indicate the occurrence of a brief tornado touchdown, rated EF-1 on the Enhanced Fujita Scale, with winds around 100 mph. The last tornados in Vermont happened in July 2003 across Bennington and Windham Counties.

Figure 3. Damage swath for the severe thunderstorm in Lamoille County. Dark gray shading indicates areas with winds estimated to be 50-70 mph. Light gray shaded areas indicate areas that likely experienced winds of 70 to 90 mph.
July 23-24 — Widespread Rainfall & Flooding

After several days in which scattered thunderstorms produced localized heavy rainfall each afternoon and evening across the state, a widespread moderate to heavy rainfall occurred. Total rainfall over the two days ranged from 2 to 4 inches across a large part of Vermont. Rivers and streams that were already running well above normal due to the antecedent rains, were pushed over bank-full in a number of locations. The Lamoille River at Johnson peaked 1.8 feet above flood stage, resulting in the closure of the Wrong-Way Bridge along Route 15 and the Missisquoi River at North Troy 0.8 feet above flood stage. Other flooding of streams and smaller rivers occurred across Washington, Orleans, Lamoille, and Caledonia Counties which resulted in some road closures along Routes 122, 14 and 100. In addition, a bridge and road were washed out at the Mt Norris Scout Camp temporarily stranding a large group of Boy Scouts.

Figure 4. Total Rainfall from 7am July 23 to 7am July 24.
**Figure 5. Total Rainfall from 7am July 24 to 7am July 25.**

### July 31-August 3 – Repeated thunderstorms and heavy rainfall

During the early overnight hours of July 31st, a band of strong to severe thunderstorms moved across the northern half of the state, producing locally heavy rainfall and minor wind damage. Areas hardest impacted with 1 to 1½ inches of rain in a short period of time included Addison, Orange, Washington and Caledonia Counties. Due to the antecedent heavy rainfall of the previous two weeks, this amount of rainfall resulted in significantly more impact than it normally would. Some of the more significant flooding occurred in the Barre and Montpelier area where culverts overflowed or were significantly damaged along Routes 2, 14 and 302.

Late in the day and into the evening of August 1, additional thunderstorms affected nearly the same region with another ½ to 1 inch of rainfall. Particularly hard hit was Washington County, where upwards of 1½ to 2 inches of rain occurred near Berlin which resulted in washouts of several roads.
Thunderstorms redeveloped during the afternoon of August 2, and brought more heavy rainfall and additional flooding. This time the heavy rainfall was more widespread, with some locations across northeast Vermont receiving rainfall in excess of 2 inches. Washington County was again hard hit, with widespread rainfall approaching 1 inch. This rain, on top of what had fallen the previous few days, caused additional damage with numerous reports of road washouts in Moretown, Duxbury and Middlesex. Heavy rainfall in portions of Rutland County also resulted in flooding damage due to a beaver dam collapse in Wallingford along Route 140. Flash flooding also occurred along the Hyde Park/Johnson town line in Lamoille County which washed out part of a road and isolated nearly a dozen residences.

August 3rd featured another round of showers and thunderstorms across primarily the northern half of Vermont. The heaviest totals of ½ to 1 inch occurred across Addison, Chittenden, Franklin and Orleans counties. Water was reported to be covering Route 5 in Derby.

Figure 6. Total Rainfall from 7am August 2 to 7am August 3.
August 6-7 - Significant Flash Flooding

As the storm system intensified over the northeast, widespread rain and thunderstorms impacted much of the state. Particularly hard hit on August 6th was Addison County where 3 to 5 inches of rain fell in a few hours. Severe damage was reported in many towns, including Hancock, Leicester and Ripton where roads and highways such as Routes 100 and 125 were closed for sometime.

Additional heavy rainfall on the order of 2 to 3 inches fell across portions of Caledonia County, and damage was reported in Danville and West Barnet where several roads were washed out. Routes 2 and 15 around Danville were also impacted. Isolated flash flooding was reported in Brandon (Rutland County) and Stockbridge (Windsor County).

On August 7th, the focus for the worst flash flooding was Orange and Washington Counties where upwards of 3 inches of rain occurred in slow moving thunderstorms during the afternoon and evening. Water flowed over many roads in the towns of Chelsea, Corinth and Montpelier forcing them to be closed. Isolated locations, such as Troy (Orleans County) and Ferrisburgh (Addison County) also suffered flash flooding damage from heavy but local rainfall. Officials in Ferrisburgh reported 2 to 3 inches in less than an hour that resulted in several roads being washed out along with a small landslide on private property near Button Bay.

Figure 7. Total Rainfall from 7am August 6 to 7am August 7.
August 10-12 – Scattered Severe Thunderstorms & Isolated Flooding

Due to the proximity of the storm system, unsettled conditions continued with daily showers and thunderstorms developing across the state. These thunderstorms primarily produced hail and locally heavy downpours. Local rainfall of 1½ to 2 inches in a short period of time resulted in flash flooding on the afternoon of August 10th around Middletown Springs (Rutland County) where water covered portions of Route 133. During the late evening of August 11th, slow moving thunderstorms produced an estimated 1 to 2 inches of rain across portions of Washington and Lamoille Counties, and flood advisories were issued although no significant flash flooding was reported.
1. Date: 9/23/2008
2. Agency: Transportation
3. Department: Operations
4. Program: Public Assistance Program
5. Type of Grant: [X] New  [ ] Supplemental  [ ] Renewal  [ ] Modification
6. Legal Title of Grant: Disaster Assistance Grant
   FEMA-1790-DR-VT
7. Federal Catalog No.: 97-036
8. Grantor and Office/Address:
   Federal Emergency Management Agency
   99 High Street
   Boston, MA 02109-4595
9. State Grant Administrator:
   Agency of Transportation
   Operations Division
    To: Completion
11. Purpose of Grant: (attach additional sheets if needed)
    To provide federal disaster assistance to repair damage to public facilities; state, local and non-profit, caused by the storms from July 21 to August 12, 2008. See attached pages.
12. Impact on Existing Programs if Grant is not Accepted:
    State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities, road, and bridges; the cost of debris removal; and for emergency response.
13. Budget Information: (Expenditures expected to occur in FY09 – FY10)

   EXPENDITURES:
   Statutory Administrative Costs 40,251.95
   Other (recovery costs - estimated) 1,205,148.00
   TOTAL $1,245,399.95

   REVENUES
   State Funds (Estimates - see attached schedule)
   Emergency Relief and Assistance Fund 162,694.98
   Federal Funds: (Federal share is 75% of the total damage estimate)
   Federal Projects 903,861.00
   Federal Administrative 40,251.95
   Other Funds: (Estimates - see attached schedule)
   Local government 138,592.02
   TOTAL $1,245,399.95

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

<table>
<thead>
<tr>
<th>DEPT ID</th>
<th>Program</th>
<th>Fund</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>8100005500</td>
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<td>8100005500</td>
<td>59700</td>
<td>21555</td>
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</table>

[Redacted by hand: SEP 2, 2008]
14. Will grant monies be spent on one or more personal service contracts?

[ ] YES  [X] NO

If YES, signature of appointing authority here indicates intent to follow current guidelines for bidding.


15a. Please list any requested Limited Service positions:

<table>
<thead>
<tr>
<th>Titles</th>
<th>Number of Positions</th>
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<tbody>
<tr>
<td>NONE</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL

15b. Equipment and space for these positions:

[ ] Is presently available.

[ ] Can be obtained with available funds.

16. Signature of Appointing Authority

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant.

(Signature)  9/24/08

(Date)

17. Action by Governor:

[ ] Approved  

[ ] Rejected

(Signature)  (Date)

18. Secretary of Administration:

[ ] Request to JFO

[ ] Information to JFO

(Signature)  (Date)

19. Action by Joint Fiscal Committee:

[ ] Request to be placed on JFC agenda

[ ] Approved (not placed on agenda in 30 days)

[ ] Approved by JFC

[ ] Rejected by JFC

[ ] Approved by Legislature

(Signature)  (Date)
### FEMA-1790-DR-VT  July 21 to August 12, 2008

#### Damage (from PDA)

<table>
<thead>
<tr>
<th>Town</th>
<th>Total</th>
<th>FEMA</th>
<th>Administrative</th>
</tr>
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<tbody>
<tr>
<td>Addison</td>
<td>$451,266.00</td>
<td>$338,449.50</td>
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<tr>
<td>Caledonia</td>
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<td>Essex</td>
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<td>Lamoille</td>
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<td>Orange</td>
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<td>Washington</td>
<td>$296,502.00</td>
<td>$222,376.50</td>
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<td>Windsor</td>
<td>$227,395.00</td>
<td>$170,546.25</td>
<td>$7,594.99</td>
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</tbody>
</table>

**Total:**

- FEMA: $903,861.00
- Administrative: $40,251.95

- **Total anticipated FEMA Support for PA:** $944,112.95

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF

- ERAF: $162,694.98

**Applicant Share:**

- $138,592.02

**Total (federal, state, & local):** $1,245,399.95

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*Error corrected 10/16/08*
Additional Information: