



**VILLAGE OF PEWAUKEE  
FIRE AND EMS COST ANALYSIS STUDY**

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**CHAPTER 2 – FINDINGS, INCIDENT ANALYSIS AND RECOMMENDATIONS**

***Current Fire-EMS Analysis***

As stated earlier, the objectives of this project were to conduct a Fire/EMS assessment, assess the current ability and effectiveness of the current fire department and identify and make recommendations regarding the provision of Fire/EMS services for the Village. The Report includes findings, an incident analysis and recommendations relating to the delivery of Fire-EMS services to the Village. This section evaluates the Department's present Fire/EMS capabilities, reviews the Villages Fire-EMS incidents and makes recommendations relating to the delivery of Fire-EMS Services to the Village. This review was based on the Center for Public Safety Excellence (CPSE), formerly the Commission of Fire Accreditation International (CFAI) categories and criteria and review of incident statistics.

***Pewaukee Fire Department***

**Findings**

The Pewaukee Fire Department overall is doing a very good job of maintaining high standards in providing fire and emergency medical services. Department personnel displayed professionalism and were very cooperative throughout the review.

The Pewaukee Fire Department is a municipal fire department established by a City of Pewaukee ordinance. The governing authority is the City Council working through the City Administrator, and the Fire and Police Commission. The City Council is responsible for Department oversight, performance program approval, and ensuring policy compliance by the fire department. There are communication processes in place through the Fire Chief and City Administration to help guide the City Council and Department in; policy making, planning, compliance with legal requirements, and the department's vision and mission. The Village of Pewaukee has contracted with the City for Fire-EMS Services since 2004. RW Management has concluded that there seems to be inconsistency in communications between the Village Board and the Fire Department relating to service updates and operational activities.

The Pewaukee Fire Department covers a population of approximately 22,000 and covers an area of approximately 31 square miles. The Fire Department is a combination department with 25 career positions and 24 paid on premise positions. There is a daily minimum staffing of 7 firefighters on duty, staffing two stations.

The Department's current Insurance Services Office, Inc. (ISO) rating is a 3. The rating schedule measures the major elements of a Department's fire suppression system. These measurements then are developed into a Public Protection Classification number on a relative scale from 1 to 10, with 10 representing less than the minimum recognized protection. The schedule is a fire insurance rating tool used to determine property insurance premiums that property owners pay to their insurance carrier.



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RW Management, Inc. completed a facility (station) review on June 18, 2014. The review found that the current stations and their locations were in the right location for good response times, for the Village. Also, the station was found to be adequate for vehicle storage, equipment storage, training, administrative services, and free of safety hazards.

The Department does have a “standard of cover” for emergency deployment, which outlines response time, pumping capacity and apparatus and equipment deployment objectives.

The water supply system is adequate for the Village, and is utilized in the planning effort as it relates to Village development. The Fire Department takes an active role in promoting fire protection suppression and detection systems as part of the development and planning process.

The Fire Department inspection program is adequate and extremely accountable when performing yearly services. The department conducts approximately 3,050 inspections each year, with follow up inspections when required. The inspection records system is very good.

The Department is working towards a long-range strategic plan, which will include stations, vehicles and personnel for the next five (5) to ten (10) years. This study was initiated to help provide the basis for the long range strategic plan as part of the fire service accreditation program.

The Village’s growth plan and the current incident response statistics show no need for improved station coverage, but the City may need to plan for future facilities in the northern part of the community.

A fire risk assessment and response strategy listing the nature and magnitude of the hazards within the Fire Department coverage area has been completed. The fire risks in each planning zone, including required fire protection resources and special, routine and isolated hazards were identified (pre-plans) so an accurate “standard of cover” strategy could be established.

The Fire Department has a formal written mission statement with corresponding goals and objectives.

The Fire department has updated and re-enforced department goals and objectives with members through a required learning/training program to ensure consistency and compliancy with all Department policies.

The Fire Chief develops the budget with input and recommendations from the officers and firefighters. The budget then goes to the City Administrator and City Council for review and approval.

Financial reports are provided to the Chief by the Finance Director who reviews them minimally on a monthly basis. The City also has an independent audit conducted annually.

The Fire Chief reviews invoices for expenses incurred by the Department on a monthly basis and submits them to the Finance Director for processing and payment.



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The City Council has established fees charged for emergency medical calls. The Department is responsible for processing these fees and submitting them to the City's third party billing agency. Given the complexity of medical billing, especially as it relates to Medicare billings, most EMS departments use the services of a third party biller.

#### ***Programs***

This area is defined as the services, activities and responses provided by the department for the Village and City, and supported by the mission, goals and objectives of the Pewaukee Fire Department.

The fire suppression, rescue services and EMS performed by Pewaukee Fire Department is supported by 3 Engines, 1 Ladder, 1 Heavy Rescue, 3 Ambulances, 3 Grass Trucks, and 1 Utility Vehicle, 3 Chiefs Vehicles and 1 Hovercraft. All responding personnel are familiar with the Incident Command System (ICS), and seem to work well with their Mutual Aid Box Alarm System (MABAS) neighbors.

The school programs and fire extinguisher training are the main areas of public education performed by the Fire Department. There is a written public education program in place.

The Pewaukee Fire Department does currently investigate fire cause and origin. Fire investigation services are provided by the Waukesha Sheriff's Department or the Pewaukee Village Police Department.

The department does provide some Technical Rescue (extrication, water/ice rescue and structural collapse) training, but other services such as elevated rescue, dive, confined space, and Trench Rescue are provided by external resources.

Hazardous materials services are provided by the department up to operational level, with level A and B coming from Waukesha and Milwaukee. This is a practical approach to hazardous materials for a department this size.

The department provides advanced emergency medical services. The Department staffs two ambulances with a minimum of four paramedics working each day.

Currently, the Village and City each provide disaster management services to the community, including an Emergency Operations Plan. Their Emergency Operations Center (EOC) is located at the Village Hall.

The Department utilizes outside certified vehicle maintenance service and emergency repair for all apparatus. A schedule is established and appears to meet the need for service and reliability of emergency apparatus. The Department equipment resources were adequate and well maintained. There was regular preventive maintenance and repairs on the equipment and an inventory control system was in place.



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There is a capital improvement program set up which outlines the replacement schedule for the apparatus, although the station maintenance or replacement is not part of that plan.

The City Human Resources Director is currently the designated personnel manager for the Fire Department.

Human resource policies, along with job descriptions for all personnel are in place. The Department also has current standard operating guidelines in place which are currently being reviewed and updated. There was a concern found that the human resource policies were not always followed and evenly enforced.

Recruitment, selection, discipline, probationary period, and promotion policies are current. The Fire and Police Commission holds the responsibility for these areas with the Fire Chief providing input.

A written physical/fitness program is in place and part of the employee contract. The Department also has a risk management in place.

The Department has a Health and Safety Committee.

The Fire Department has a current competency based training plan in place.

The water supply in most of the coverage area is covered by a hydrant system, which is adequate. Mutual Aid Box Alarm System (MABAS) provides for Tender coverage from other departments for the areas that do not have hydrants.

A county wide 800 Trunked Communications system is in place and dispatch is provided by a county wide dispatch center. This system provides interoperability with mutual aid departments. The Communication Center does have adequate communication standard operating guidelines in place.

The management information system does support the current needs of the Department.

The MABAS agreement and related auto-aid agreements, box cards and standard operating guidelines are functioning well.



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***Fire-EMS Incident Analysis***

RW reviewed the Fire-EMS incident responses of the Pewaukee Fire Department in the Village of Pewaukee. The results of this review are illustrated in the following charts:

**Table 2.1** shows the breakdown of types of incidents over the past four years. The incident types are based in the National Fire Incident Reporting System (NFIRS) which is utilized nationwide. The table contains the total incident type responses, in the Village, for the four years listed, along with the total percentage of incidents for that incident type. These findings are consistent with national statistics and show a decrease in fire and hazardous incident type responses and an increase in rescue and EMS responses. The actual incident response reports are included as **Attachment A** and provide a more detailed explanation of each incident response.

**TABLE 2.1**

<b>INCIDENT TYPE</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>
<b>FIRE</b>	16-2%	18-3%	14-2%	9-1%
<b>OVERPRESSURE-EXPLOSION</b>	2-0%	1-0%	1-0%	2-0%
<b>RESCUE AND EMS</b>	528-80%	524-76%	588-77%	615-80%
<b>HAZARDOUS CONDITION</b>	20-3%	25-4%	17-2%	16-2%
<b>SERVICE CALL</b>	19-3%	18-3%	24-3%	16-2%
<b>GOOD INTENT CALL</b>	31-5%	57-8%	47-6%	51-7%
<b>FALSE ALARM</b>	37-6%	43-6%	67-9%	56-7%
<b>SEVERE WEATHER</b>	1-0%	1-0%	1-0%	0-0%
<b>SPECIAL INCIDENT</b>	5-1%	2-0%	2-0%	0-0%
<b>TOTALS</b>	<b>659</b>	<b>689</b>	<b>761</b>	<b>765</b>

**Table 2.2** below is an illustration of the Fire vs. EMS incident response over a ten year period. The first row starts with Village Fire responses by giving the total number in 2004, then the percentage of fire vs. EMS responses in the Village that year, followed by the same sequence for 2013 and the % of change in fire vs. EMS responses in the Village over a 10 year period. The same sequence is then repeated in the Village EMS row for EMS responses. The Total row in the middle shows the total Fire-EMS calls for the Village in 2004, the percentage of the total calls for the Pewaukee Fire Department and then the same for 2013. The total percentage of Village share of the calls, for the Pewaukee Fire Department, only increased by 1% or very little change, while the total Fire-EMS calls in the Village increase by 32%.



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**TABLE 2.2**

<b>COMMUNITY</b>	<b>2004</b>	<b>%</b>	<b>2013</b>	<b>%</b>	<b>CHANGE</b>
<b>VILLAGE FIRE</b>	103	18%	85	11%	-7%
<b>VILLAGE EMS</b>	479	82%	682	89%	+7%
<b>TOTALS</b>	<b>582</b>	<b>40%</b>	<b>767</b>	<b>41%</b>	<b>+32%</b>
<b>CITY FIRE</b>	252	29%	168	15%	-14%
<b>CITY EMS</b>	604	71%	931	85%	+14%
<b>TOTALS</b>	<b>856</b>	<b>60%</b>	<b>1099</b>	<b>59%</b>	<b>+28%</b>

The Village of Pewaukee and the Pewaukee Fire Department are experiencing the same trends that are occurring throughout the nation. The improved building codes and fire inspection and prevention programs continue to decrease the number of fire incidents, while the ageing population continues to increase the EMS incidents. RW also reviewed the standards of cover and incident response guidelines and procedures that the Pewaukee Fire Department follows for response to the different incident types. Based on our review the responses are appropriate for the staffing levels, call volume, risk analysis and department apparatus.

### ***Alternative Options for Fire EMS Services***

Based on the evaluation of Fire-EMS services for the Village, RW identified four alternative options for Fire-EMS services that we felt were realistic options for the Village. The four alternative options were:

1. Negotiate a new contract with the City of Pewaukee
2. Contract for services with a different agency
3. Pursue creation of the consolidated fire district
4. Develop a Village paid on call department

#### **Option 1 – Negotiate a new contract with the City of Pewaukee**

The Village currently has a contract with the City of Pewaukee for Fire-EMS services. This contract was first signed in 2004 and is based on a cost per incident and cost per fire and fuel tank inspection. The contract is automatically renewed for 5 years and was up for the second renewal in 2013. Contract negotiations broke down and the Village made a decision to have a Fire-EMS cost analysis study completed.

#### **Option 2 – Negotiate a contract with a different agency**

The Village does have the option to request Fire-EMS services from a different agency and negotiate a contract with that agency. There is the potential interest from other agencies that may have an interest in contracting for Fire-EMS Services for the Village. This option would create the need for the Village to provide a Fire-EMS station within the Village to staff personnel and apparatus.



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#### **Option 3 – Pursue the creation of a Fire District**

The creation of a Fire District capable of taxing citizens for Fire-EMS Services would take special legislation to allow for the creation of a special taxing district. This option would take a longer period of time to complete and would not provide an immediate solution to the provision of Fire-EMS Services.

#### **Option 4 – Create a Paid on Call or Combination Fire Department for the Village**

The Village does have the ability to create its own Fire Department. This option would also take additional time to put into place. A station, fire equipment and personnel would have to be obtained and put into place.

RW addresses the concerns and recommendations relating to these options in the Fire-EMS Service Recommendations section of this Chapter, immediately following this section.

#### ***Fire-EMS Service Recommendations***

RW completed a comprehensive review of the many issues involved in the delivery of Fire-EMS Services to the Village. Our recommendations are based on an objective view of the Fire-EMS Service delivery, the political atmosphere in the two communities and county, the economics and the realistic options available for the delivery of Fire-EMS Services. Chapter 3 – Cost-Benefit Analysis reviews the multiple comparisons and related economic issues. The findings in that chapter were utilized to provide the recommendations listed here.

RW recommends Option 1 – Negotiate a new contract with the City of Pewaukee. The Village of Pewaukee is currently receiving a high level of Fire-EMS Services. The Village had requested better response times and paramedic services during the contract terms. The City and Fire Department provided a new station, paramedic services and increased career staffing levels to accomplish this request. RW found that the Fire Department is one of the leading departments in the County and the State. They are currently going through the national accreditation process, have an ISO rating of three and may be going to a two, and received high grades in every area that RW reviewed. The only concerns regarding the service found by RW were the need for more communications between Fire Administration and the Village Board and the cost increases that are part of this level of service.

The issues of cost reduction, rapidly increasing contract costs and administrative communications should be managed through quality non-political contract negotiations. The current contract is limited, focuses on calls for service and inspections, rather than economic indicators such as population and assessed value, along with customer service. Fire-EMS Services are also very resource driven and the contract should be part of the City and Villages long term strategic planning, for a 10 – 20 year plan, rather than a 5 year agreement.



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RW also recommends changing the Villages alarm ordinance to reflect the goal of reducing false alarms rather than financial recovery. The current ordinance has caused excessive penalties to some entities that have alarms. There should also be a joint effort between the Village and the Fire Department with alarm permit holders to help them reduce the amount of alarms and false alarms. The Village and Fire Department should also work together on burn permits and what burning is allowed in the Village, to help reduce the potential for related fires and other false alarms.

Option 2 – Negotiating a contract with a different agency would be the option to use if political differences cannot be resolved between the Village and the City. It is not a given that contracting with a different agency will not have its own political issues. While there may be other communities which would be willing to contract for Fire-EMS Services, it may not be cost effective. While the actual contract may be able to be negotiated at a lower level, a station and apparatus would most likely have to be provided by the Village.

Option 3 – Pursue the creation of a fire district – This is a longer term option, due to the legislative effort that would have to take place to make it happen. Fire-EMS Services are very resource driven. While actual fires are decreasing, they still occur and always will, and each fire creates a need for extensive resources. The idea of pooling these resources or consolidating services, so that they can be moved where they are needed makes the most sense. The political roadblock to this option is the creation of another taxing district.

Option 4 – Create a paid on call or combination fire department for the Village – This option relates directly to the findings in Chapter 3 of this report regarding comparable communities and their cost for Fire-EMS Services. The Fire-EMS expenditures for many communities the same size as the Village is lower. The reason for this is fewer full time Fire-EMS personnel. Having fewer full time Fire-EMS personnel is the only way to substantially reduce Fire-EMS costs, but it will also reduce response times for Fire and EMS incidents. There are also substantial startup costs when creating a new Fire-EMS Department. A station, Fire-EMS apparatus and staffing would have to be put in place.

Other options were examined, such as contracting separately for EMS, which would still leave a void for fire – rescue responses and not really solve any issues. RW determined that the four options presented were the best available options at this time.



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**ATTACHMENT A  
2010 – 2013 VILLAGE OF PEWAUKEE  
INCIDENT RESPONSE DATA**



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Incident Type Report (Summary)

Alarm Date Between {01/01/2013} And {12/31/2013}  
and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>1 Fire</b>				
111 Building fire	1	0.13%	\$40,500	80.83%
113 Cooking fire, confined to container	3	0.39%	\$0	0.00%
131 Passenger vehicle fire	1	0.13%	\$4,500	8.98%
143 Grass fire	1	0.13%	\$0	0.00%
150 Outside rubbish fire, Other	1	0.13%	\$0	0.00%
154 Dumpster or other outside trash receptacle	2	0.26%	\$0	0.00%
	<b>9</b>	<b>1.17%</b>	<b>\$45,000</b>	<b>89.82%</b>
<b>2 Overpressure Rupture, Explosion, Overheat(no fire)</b>				
251 Excessive heat, scorch burns with no	2	0.26%	\$0	0.00%
	<b>2</b>	<b>0.26%</b>	<b>\$0</b>	<b>0.00%</b>
<b>3 Rescue &amp; Emergency Medical Service Incident</b>				
321 EMS call, excluding vehicle accident with	558	72.94%	\$0	0.00%
322 Motor vehicle accident with injuries	22	2.87%	\$0	0.00%
323 Motor vehicle/pedestrian accident (MV Ped)	2	0.26%	\$0	0.00%
324 Motor Vehicle Accident with no injuries	32	4.18%	\$0	0.00%
360 Water & ice-related rescue, other	1	0.13%	\$0	0.00%
	<b>615</b>	<b>80.39%</b>	<b>\$0</b>	<b>0.00%</b>
<b>4 Hazardous Condition (No Fire)</b>				
412 Gas leak (natural gas or LPG)	5	0.65%	\$0	0.00%
413 Oil or other combustible liquid spill	1	0.13%	\$0	0.00%
424 Carbon monoxide incident	1	0.13%	\$0	0.00%
440 Electrical wiring/equipment problem, Other	2	0.26%	\$5,000	9.98%
441 Heat from short circuit (wiring),	1	0.13%	\$0	0.00%
444 Power line down	3	0.39%	\$0	0.00%
445 Arcing, shorted electrical equipment	2	0.26%	\$100	0.19%
463 Vehicle accident, general cleanup	1	0.13%	\$0	0.00%
	<b>16</b>	<b>2.09%</b>	<b>\$5,100</b>	<b>10.17%</b>
<b>5 Service Call</b>				
500 Service Call, other	2	0.26%	\$0	0.00%
511 Lock-out	1	0.13%	\$0	0.00%
520 Water problem, Other	2	0.26%	\$0	0.00%
531 Smoke or odor removal	1	0.13%	\$0	0.00%
551 Assist police or other governmental agency	1	0.13%	\$0	0.00%



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Alarm Date Between {01/01/2013} And {12/31/2013}  
and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>5 Service Call</b>				
552 Police matter	7	0.91%	\$0	0.00%
553 Public service	1	0.13%	\$0	0.00%
571 Cover assignment, standby, moveup	1	0.13%	\$0	0.00%
	<b>16</b>	<b>2.09%</b>	<b>\$0</b>	<b>0.00%</b>
<b>6 Good Intent Call</b>				
611 Dispatched & cancelled en route	33	4.31%	\$0	0.00%
622 No Incident found on arrival at dispatch	18	2.35%	\$0	0.00%
	<b>51</b>	<b>6.66%</b>	<b>\$0</b>	<b>0.00%</b>
<b>7 False Alarm &amp; False Call</b>				
700 False alarm or false call, Other	20	2.61%	\$0	0.00%
730 System malfunction, Other	1	0.13%	\$0	0.00%
731 Sprinkler activation due to malfunction	1	0.13%	\$0	0.00%
733 Smoke detector activation due to	8	1.04%	\$0	0.00%
735 Alarm system sounded due to malfunction	4	0.52%	\$0	0.00%
736 CO detector activation due to malfunction	3	0.39%	\$0	0.00%
741 Sprinkler activation, no fire -	1	0.13%	\$0	0.00%
743 Smoke detector activation, no fire -	4	0.52%	\$0	0.00%
745 Alarm system activation, no fire -	11	1.43%	\$0	0.00%
746 Carbon monoxide detector activation, no CO	3	0.39%	\$0	0.00%
	<b>56</b>	<b>7.32%</b>	<b>\$0</b>	<b>0.00%</b>

Total Incident Count: 765

Total Est Loss:

\$50,100



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and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>1 Fire</b>				
111 Building fire	2	0.26%	\$53,000	99.90%
113 Cooking fire, confined to container	2	0.26%	\$50	0.09%
130 Mobile property (vehicle) fire, Other	1	0.13%	\$0	0.00%
140 Natural vegetation fire, Other	1	0.13%	\$0	0.00%
141 Forest, woods or wildland fire	1	0.13%	\$0	0.00%
142 Brush or brush-and-grass mixture fire	1	0.13%	\$0	0.00%
143 Grass fire	3	0.39%	\$0	0.00%
150 Outside rubbish fire, Other	3	0.39%	\$0	0.00%
	<b>14</b>	<b>1.83%</b>	<b>\$53,050</b>	<b>100.00%</b>
<b>2 Overpressure Rupture, Explosion, Overheat(no fire)</b>				
220 Overpressure rupture from air or gas, Other	1	0.13%	\$0	0.00%
	<b>1</b>	<b>0.13%</b>	<b>\$0</b>	<b>0.00%</b>
<b>3 Rescue &amp; Emergency Medical Service Incident</b>				
321 EMS call, excluding vehicle accident with	546	71.74%	\$0	0.00%
322 Motor vehicle accident with injuries	22	2.89%	\$0	0.00%
323 Motor vehicle/pedestrian accident (MV Ped)	1	0.13%	\$0	0.00%
324 Motor Vehicle Accident with no injuries	17	2.23%	\$0	0.00%
353 Removal of victim(s) from stalled elevator	2	0.26%	\$0	0.00%
	<b>588</b>	<b>77.26%</b>	<b>\$0</b>	<b>0.00%</b>
<b>4 Hazardous Condition (No Fire)</b>				
412 Gas leak (natural gas or LPG)	2	0.26%	\$0	0.00%
413 Oil or other combustible liquid spill	3	0.39%	\$0	0.00%
424 Carbon monoxide incident	1	0.13%	\$0	0.00%
440 Electrical wiring/equipment problem, Other	2	0.26%	\$0	0.00%
444 Power line down	7	0.91%	\$0	0.00%
445 Arcing, shorted electrical equipment	1	0.13%	\$0	0.00%
463 Vehicle accident, general cleanup	1	0.13%	\$0	0.00%
	<b>17</b>	<b>2.23%</b>	<b>\$0</b>	<b>0.00%</b>
<b>5 Service Call</b>				
500 Service Call, other	4	0.52%	\$0	0.00%
511 Lock-out	1	0.13%	\$0	0.00%
551 Assist police or other governmental agency	2	0.26%	\$0	0.00%
552 Police matter	10	1.31%	\$0	0.00%

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and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>5 Service Call</b>				
553 Public service	3	0.39%	\$0	0.00%
571 Cover assignment, standby, moveup	4	0.52%	\$0	0.00%
	<b>24</b>	<b>3.15%</b>	<b>\$0</b>	<b>0.00%</b>
<b>6 Good Intent Call</b>				
600 Good intent call, Other	1	0.13%	\$0	0.00%
611 Dispatched & cancelled en route	31	4.07%	\$0	0.00%
622 No Incident found on arrival at dispatch	13	1.70%	\$0	0.00%
651 Smoke scare, odor of smoke	2	0.26%	\$0	0.00%
	<b>47</b>	<b>6.17%</b>	<b>\$0</b>	<b>0.00%</b>
<b>7 False Alarm &amp; False Call</b>				
700 False alarm or false call, Other	17	2.23%	\$0	0.00%
730 System malfunction, Other	2	0.26%	\$0	0.00%
731 Sprinkler activation due to malfunction	2	0.26%	\$0	0.00%
733 Smoke detector activation due to	5	0.65%	\$0	0.00%
735 Alarm system sounded due to malfunction	3	0.39%	\$0	0.00%
736 CO detector activation due to malfunction	5	0.65%	\$0	0.00%
740 Unintentional transmission of alarm, Other	3	0.39%	\$0	0.00%
743 Smoke detector activation, no fire -	12	1.57%	\$0	0.00%
744 Detector activation, no fire -	6	0.78%	\$0	0.00%
745 Alarm system activation, no fire -	9	1.18%	\$0	0.00%
746 Carbon monoxide detector activation, no CO	3	0.39%	\$0	0.00%
	<b>67</b>	<b>8.80%</b>	<b>\$0</b>	<b>0.00%</b>
<b>8 Severe Weather &amp; Natural Disaster</b>				
814 Lightning strike (no fire)	1	0.13%	\$0	0.00%
	<b>1</b>	<b>0.13%</b>	<b>\$0</b>	<b>0.00%</b>
<b>9 Special Incident Type</b>				
900A Handled by Mutual Aid Dept	2	0.26%	\$0	0.00%
	<b>2</b>	<b>0.26%</b>	<b>\$0</b>	<b>0.00%</b>

Total Incident Count: 761

Total Est Loss:

\$53,050



**VILLAGE OF PEWAUKEE  
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**CHAPTER 2 – FINDINGS, INCIDENT ANALYSIS AND RECOMMENDATIONS**

PFD

Incident Type Report (Summary)

Alarm Date Between {01/01/2011} And {12/31/2011}  
and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>1 Fire</b>				
100 Fire, Other	1	0.14%	\$0	0.00%
111 Building fire	4	0.58%	\$240,250	99.17%
113 Cooking fire, confined to container	2	0.29%	\$0	0.00%
131 Passenger vehicle fire	2	0.29%	\$1,000	0.41%
134 Water vehicle fire	1	0.14%	\$0	0.00%
140 Natural vegetation fire, Other	3	0.43%	\$0	0.00%
141 Forest, woods or wildland fire	1	0.14%	\$0	0.00%
142 Brush or brush-and-grass mixture fire	2	0.29%	\$0	0.00%
150 Outside rubbish fire, Other	2	0.29%	\$0	0.00%
	<b>18</b>	<b>2.61%</b>	<b>\$241,250</b>	<b>99.58%</b>
<b>2 Overpressure Rupture, Explosion, Overheat (no fire)</b>				
251 Excessive heat, scorch burns with no	1	0.14%	\$0	0.00%
	<b>1</b>	<b>0.14%</b>	<b>\$0</b>	<b>0.00%</b>
<b>3 Rescue &amp; Emergency Medical Service Incident</b>				
311 Medical assist, assist EMS crew	1	0.14%	\$0	0.00%
321 EMS call, excluding vehicle accident with	481	69.81%	\$0	0.00%
322 Motor vehicle accident with injuries	18	2.61%	\$0	0.00%
323 Motor vehicle/pedestrian accident (MV Ped)	1	0.14%	\$0	0.00%
324 Motor Vehicle Accident with no injuries	21	3.04%	\$0	0.00%
381 Rescue or EMS standby	2	0.29%	\$0	0.00%
	<b>524</b>	<b>76.05%</b>	<b>\$0</b>	<b>0.00%</b>
<b>4 Hazardous Condition (No Fire)</b>				
400 Hazardous condition, Other	2	0.29%	\$0	0.00%
412 Gas leak (natural gas or LPG)	9	1.30%	\$0	0.00%
424 Carbon monoxide incident	1	0.14%	\$0	0.00%
440 Electrical wiring/equipment problem, Other	3	0.43%	\$0	0.00%
442 Overheated motor	1	0.14%	\$300	0.12%
443 Breakdown of light ballast	1	0.14%	\$700	0.28%
444 Power line down	5	0.72%	\$0	0.00%
445 Arcing, shorted electrical equipment	2	0.29%	\$0	0.00%
463 Vehicle accident, general cleanup	1	0.14%	\$0	0.00%
	<b>25</b>	<b>3.62%</b>	<b>\$1,000</b>	<b>0.41%</b>
<b>5 Service Call</b>				



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**CHAPTER 2 – FINDINGS, INCIDENT ANALYSIS AND RECOMMENDATIONS**

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Incident Type Report (Summary)

Alarm Date Between {01/01/2011} And {12/31/2011}  
and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>5 Service Call</b>				
511 Lock-out	1	0.14%	\$0	0.00%
512 Ring or jewelry removal	1	0.14%	\$0	0.00%
520 Water problem, Other	1	0.14%	\$0	0.00%
531 Smoke or odor removal	1	0.14%	\$0	0.00%
550 Public service assistance, Other	2	0.29%	\$0	0.00%
551 Assist police or other governmental agency	1	0.14%	\$0	0.00%
552 Police matter	10	1.45%	\$0	0.00%
571 Cover assignment, standby, moveup	1	0.14%	\$0	0.00%
	<b>18</b>	<b>2.61%</b>	<b>\$0</b>	<b>0.00%</b>
<b>6 Good Intent Call</b>				
600 Good intent call, Other	1	0.14%	\$0	0.00%
611 Dispatched & cancelled en route	40	5.80%	\$0	0.00%
622 No Incident found on arrival at dispatch	12	1.74%	\$0	0.00%
631 Authorized controlled burning	1	0.14%	\$0	0.00%
651 Smoke scare, odor of smoke	2	0.29%	\$0	0.00%
661 EMS call, party transported by non-fire	1	0.14%	\$0	0.00%
	<b>57</b>	<b>8.27%</b>	<b>\$0</b>	<b>0.00%</b>
<b>7 False Alarm &amp; False Call</b>				
700 False alarm or false call, Other	8	1.16%	\$0	0.00%
730 System malfunction, Other	1	0.14%	\$0	0.00%
731 Sprinkler activation due to malfunction	1	0.14%	\$0	0.00%
735 Alarm system sounded due to malfunction	5	0.72%	\$0	0.00%
736 CO detector activation due to malfunction	4	0.58%	\$0	0.00%
740 Unintentional transmission of alarm, Other	4	0.58%	\$0	0.00%
741 Sprinkler activation, no fire -	2	0.29%	\$0	0.00%
744 Detector activation, no fire -	2	0.29%	\$0	0.00%
745 Alarm system activation, no fire -	14	2.03%	\$0	0.00%
746 Carbon monoxide detector activation, no CO	2	0.29%	\$0	0.00%
	<b>43</b>	<b>6.24%</b>	<b>\$0</b>	<b>0.00%</b>
<b>8 Severe Weather &amp; Natural Disaster</b>				
800 Severe weather or natural disaster, Other	1	0.14%	\$0	0.00%
	<b>1</b>	<b>0.14%</b>	<b>\$0</b>	<b>0.00%</b>
<b>9 Special Incident Type</b>				



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Incident Type Report (Summary)

Alarm Date Between {01/01/2011} And {12/31/2011}  
and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>9 Special Incident Type</b>				
900 Special type of incident, Other	1	0.14%	\$0	0.00%
900A Handled by Mutual Aid Dept	1	0.14%	\$0	0.00%
	<u>2</u>	<u>0.29%</u>	<u>\$0</u>	<u>0.00%</u>

Total Incident Count: 689

Total Est Loss: \$242,250



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Incident Type Report (Summary)

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and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>1 Fire</b>				
100 Fire, Other	2	0.30%	\$500	0.48%
111 Building fire	3	0.45%	\$97,300	93.60%
114 Chimney or flue fire, confined to chimney	2	0.30%	\$0	0.00%
116 Fuel burner/boiler malfunction, fire	1	0.15%	\$5,000	4.81%
131 Passenger vehicle fire	2	0.30%	\$1,150	1.10%
150 Outside rubbish fire, Other	3	0.45%	\$0	0.00%
151 Outside rubbish, trash or waste fire	1	0.15%	\$0	0.00%
154 Dumpster or other outside trash receptacle	2	0.30%	\$0	0.00%
	<b>16</b>	<b>2.42%</b>	<b>\$103,950</b>	<b>100.00%</b>
<b>2 Overpressure Rupture, Explosion, Overheat(no fire)</b>				
223 Air or gas rupture of pressure or process	1	0.15%	\$0	0.00%
251 Excessive heat, scorch burns with no	1	0.15%	\$0	0.00%
	<b>2</b>	<b>0.30%</b>	<b>\$0</b>	<b>0.00%</b>
<b>3 Rescue &amp; Emergency Medical Service Incident</b>				
300 Rescue, EMS incident, other	2	0.30%	\$0	0.00%
321 EMS call, excluding vehicle accident with	488	74.05%	\$0	0.00%
322 Motor vehicle accident with injuries	20	3.03%	\$0	0.00%
323 Motor vehicle/pedestrian accident (MV Ped)	3	0.45%	\$0	0.00%
324 Motor Vehicle Accident with no injuries	15	2.27%	\$0	0.00%
	<b>528</b>	<b>80.12%</b>	<b>\$0</b>	<b>0.00%</b>
<b>4 Hazardous Condition (No Fire)</b>				
411 Gasoline or other flammable liquid spill	2	0.30%	\$0	0.00%
412 Gas leak (natural gas or LPG)	6	0.91%	\$0	0.00%
424 Carbon monoxide incident	3	0.45%	\$0	0.00%
440 Electrical wiring/equipment problem, Other	5	0.75%	\$0	0.00%
444 Power line down	2	0.30%	\$0	0.00%
445 Arcing, shorted electrical equipment	2	0.30%	\$0	0.00%
	<b>20</b>	<b>3.03%</b>	<b>\$0</b>	<b>0.00%</b>
<b>5 Service Call</b>				
500 Service Call, other	1	0.15%	\$0	0.00%
511 Lock-out	2	0.30%	\$0	0.00%
522 Water or steam leak	1	0.15%	\$0	0.00%
550 Public service assistance, Other	1	0.15%	\$0	0.00%



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PFD

Incident Type Report (Summary)

Alarm Date Between {01/01/2010} And {12/31/2010}  
and District = "VP"

Incident Type	Count	Pct of Incidents	Total Est Loss	Pct of Losses
<b>5 Service Call</b>				
552 Police matter	13	1.97%	\$0	0.00%
561 Unauthorized burning	1	0.15%	\$0	0.00%
	<b>19</b>	<b>2.88%</b>	<b>\$0</b>	<b>0.00%</b>
<b>6 Good Intent Call</b>				
600 Good intent call, Other	2	0.30%	\$0	0.00%
611 Dispatched & cancelled en route	19	2.88%	\$0	0.00%
622 No Incident found on arrival at dispatch	9	1.36%	\$0	0.00%
651 Smoke scare, odor of smoke	1	0.15%	\$0	0.00%
	<b>31</b>	<b>4.70%</b>	<b>\$0</b>	<b>0.00%</b>
<b>7 False Alarm &amp; False Call</b>				
700 False alarm or false call, Other	12	1.82%	\$0	0.00%
710 Malicious, mischievous false call, Other	1	0.15%	\$0	0.00%
730 System malfunction, Other	1	0.15%	\$0	0.00%
731 Sprinkler activation due to malfunction	1	0.15%	\$0	0.00%
735 Alarm system sounded due to malfunction	3	0.45%	\$0	0.00%
736 CO detector activation due to malfunction	2	0.30%	\$0	0.00%
740 Unintentional transmission of alarm, Other	3	0.45%	\$0	0.00%
743 Smoke detector activation, no fire -	3	0.45%	\$0	0.00%
744 Detector activation, no fire -	3	0.45%	\$0	0.00%
745 Alarm system activation, no fire -	8	1.21%	\$0	0.00%
	<b>37</b>	<b>5.61%</b>	<b>\$0</b>	<b>0.00%</b>
<b>8 Severe Weather &amp; Natural Disaster</b>				
813 Wind storm, tornado/hurricane assessment	1	0.15%	\$0	0.00%
	<b>1</b>	<b>0.15%</b>	<b>\$0</b>	<b>0.00%</b>
<b>9 Special Incident Type</b>				
900A Handled by Mutual Aid Dept	5	0.75%	\$0	0.00%
	<b>5</b>	<b>0.75%</b>	<b>\$0</b>	<b>0.00%</b>
<b>Total Incident Count:</b>	<b>659</b>		<b>Total Est Loss:</b>	<b>\$103,950</b>