

# Town of Lauderdale-by-the-Sea

## OFFICE OF THE TOWN MANAGER

**Date:** May 20, 2011

**To:** Mayor Roseann Minnet  
Commissioner Stuart Dodd  
Commissioner Birute Clotey  
Commissioner Scot Sasser  
Commissioner Chris Vincent

**From:** Connie Hoffmann, Town Manager 

**Subject:** May Town Manager's Report

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### Recruitments

I have interviewed and tested several new Finance Director candidates and hope to have a selection made next week.

We are advertising for a staff Planner in a variety with both the state planners' association and the American Planning Association nationally. My plan is that we will hire a senior-level planning professional and that Bud will continue to function as the Department Director. We have enough planning work to keep a staff planner fully occupied.

### Hotel Code Enforcement

Attached is a report of a join inspection by the Fire Marshall and Town code enforcement of the Dolphin Harbor Inn at 4245 Ocean Drive. The property owners have been very cooperative and have moved quickly to correct the violations noted.

### ISO Evaluation Report

We received the official report from the ISO that they have granted an improved the rating of the Town's fire protection capability. Kudos are due to the Volunteer Fire Department for the work they have done to achieve the improved rating.

## **University of Miami Design Project**

An enormous effort has gone into preparing for the University of Miami School of Architecture's Community Design Charette & Workshop. We have advertised the event heavily, have reached out to businesses along A1A and Commercial Boulevard to participate and have had a good response. The Mayor distributed flyers to condominiums and in residential neighborhoods, recruited others to help her distribute flyers, and called upon local businesses in person urging them to participate.

In addition to Saturday's general sessions, many property owners and businesses have made appointments to meet with the University of Miami team throughout the week.

We want to thank the following hotels who have graciously provided free hotel lodgings to the team:

Away Inn  
Beachside Village Resort  
Lauderdale Beachside Hotel  
Ocean Reverie  
Paradise by the Sea  
Sea Garden  
Sea Lord  
Villa Caprice  
Windjammer Resort

I am looking forward to an exciting and productive week.

### **Project List**

The updated projects/assignment list is attached. Many items have moved to the completed list this past month, which is a good feeling.

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## TOWN MANAGER'S LIST OF SIGNIFICANT ASSIGNMENTS/PROJECTS

PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>RESOLUTIONS &amp; ORDINANCES</b>		
Sign code revisions - Part 2	An NOI to enable us to work on a second ordinance on the sign code was approved on the April 27th. This ordinance will cover pole, pylon signs, hotel parking, banner signs, etc.	on May 24th agenda
Modification of Notification of Intent process	Commission wants to shorten the steps in the NOI Process. The NOI public hearing authoring us to proceed to work on that was held on 2/22. TAtty has drafted changes to NOI process; will go on Commission June Roundtable for review.	June Roundtable
Architectural Standards and Review	The NOI public hearing authoring us to proceed to work on that was held on 2/22.	

## TOWN MANAGER'S LIST OF SIGNIFICANT ASSIGNMENTS/PROJECTS

PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>ADMINISTRATIVE ISSUES</b>		
Outdated Technology - Telephone System	We've had ongoing discussions with the County regarding hooking into their telephone system, which would save us money & provide many more features than we currently have. In the past 2 weeks staff has met with several other phone service providers to determine whether they could provide a better price.	
Outdated technology - IT System	ATM Bentley asked the County's IT Dept to review the hardware proposals to advise us if the recommendations are sound. They have advised that they are, but suggested the Town may be able to hook into another government's hardware, or place our hardware off-site at a "hardened" facility (IT lingo for a building that is hurricane-proof), and hooking into another gov't's telephone system in order to reduce costs & have an even more robust system than we could otherwise afford. In late February the County Manager's Office authorized County staff to proceed to develop a more detailed cost proposal for us. No progress. Still waiting for County staff's cost proposals.	
Outdated Technology - Internet Access	AT&T has started their process to determine what they need to do to bring fiber to Town Hall. AT&T knows there isn't any fiber in the immediate area and they are evaluating the best method of serving Town Hall. The preliminary indication is that we will not have any expense for the extension of the fiber line except for providing a new conduit from the street to the building.	
Personnel Policies	Rewrite is 90% complete; other priorities have prevented me from finalizing these changes.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Purchasing Policies	Town Attorney reviewed the changes to the Purchasing Manual. Recommendations placed on March Roundtable. Commission deferred discussion to April Roundtable, then assigned to Audit Committee to review. The Audit Committee met and has suggested several additional modifications. They want to meet again to discuss the section of the manual that deals with real property acquisitions.	June Roundtable
Town Website Improvements	<p>a. The PIO has revised a lot of info on the website that was outdated, incorrect, or found in illogical places. He has also archived 2010 Commission meeting files on the web and made them easier to access. This should cut down the staff effort required on public records requests. In addition, he has been working with Sunny Eckhart to further improve the website by redesigning the front page, improving the functionality of the drop down box choices, and using more and better pictures. We hope to have the new front page up &amp; operating by the end of May.</p> <p>b. At 9/20 meeting the Commission asked that the website be designed so that residents could log on and ask for information of the Town. PIO looked into software to do this, but its complicated and project not deemed a priority, so we have not pursued it further. TC wants to be advised when the Town has the capability of sending email blasts.</p>	

**TOWN MANAGER'S LIST OF SIGNIFICANT ASSIGNMENTS/PROJECTS**

PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>BUDGET</b>		
Current Year Budget vs. Actual Analysis	The summary report for FY 2009/2010 was included with the Town Manager report on the Dec. 7th Commission agenda. We provided a report to the Commission on the first quarter of FY 11 on 4/27 agenda as a report. Mid-year budget presentation was made on the April 27th agenda. Next report will be in July	July
Town Attorney Agreement	TAtty budget reduced to \$400,000. TMgr & Tatty to work together to control costs. Costs running ahead of budget. We are to reschedule a discussion of the possibility of going to a fixed retainer/hourly rate combo in next year's budget deliberations.	revisit in June
Employee Health-Related Insurance Programs	After ongoing service problems with our prior benefits broker, we switched to a new broker in April (piggybacking off another city's contract). Our new broker has resolved the problems we had been having with our life insurance provider. New broker has been soliciting alternative health carriers for the employee medical insurance, but is finding costs are not competitive with the current policy we have through the League of Cities.	health insurance bid evaluations to Commission in July

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>CAPITAL PROJECTS</b>		
A1A Landscape/Streetscape LAP Project Pine Island to Terra Mar	Commission approved extension of the FDOT LAP agreement and Post Buckley's design contract on Dec. 7th. Issue of architectural feature was resolved by Commission in March with selection of simpler pelican design, which reduced estimated cost of the architectural element from \$84K to \$42K. RFP responses for Project Mgmt received on 4/22. Construction bid documents are out and bids are due May 19th.	Project Mgr contractor selection is on the May 24th agenda; construction bid award in June
El Mar Dr Streetscape Project	a. Staff directed by Commission at March Roundtable to develop cost estimates of burying utilities for El Mar project, as well as areas affected by downtown drainage project. b. Commission decided at April Roundtable to stick with 4 lanes of traffic.	Report on May 24th agenda
West Tradewinds Dr Stormwater Project	Chen completed design of the Tradewinds Drive project and we've received permit to construct it. Project out to bid; pre-bid conference was well-attended. We expect the construction bids to come in under budget.	June for construction award
Flamingo Drive Stormwater Project	After seeing that original design concept did not work at nearby Fort Lauderdale project, Chen switched to an exfiltration design. Design almost completed. Next step- apply for permits.	July for construction award

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Terra Mar Stormwater Project	Don Prince is getting quotes to try a more cost-effective way to alleviate the flooding by boring a hole in the side of the catch basin. He is taking this approach because the seawall is practically the same height as the catch basin, so it may not be feasible to lower the catch basin. Don estimates the cost will be under \$2k. The original project was estimated to cost \$25k.	
Harbor Drive (seagrape to e. tradewinds) stormwater project design	Got a design proposal from Chen but would take us over their annual contract amount. RFQ that is out for a variety of professional services will enable us to negotiate with additional firms to do drainage design work.	
Downtown Stormwater Project Design	Brought this matter to Commission for discussion at March Roundtable. Commission decided they want an RFP for design rather than to assign to Town Engineer Chen & Assoc. RFQ is out to select several firms capable of doing this & other engineering and streetscape designs to give us greater flexibility on this and other projects. Survey of section of Commercial, the alleys and all of El Mar needed to design this project has been obtained.	
Tennis Court lighting	Since the Sept 20 roundtable discussion of this issue, info on tennis revenue /# of keys issued provided in October Town Mgr's report. We also had a lighting analysis done of the existing lights and received suggestions on a less expensive solution, but it requires using the existing poles. It was determined that the poles could be refurbished but structural engineer advised on 4/19 that the current poles, even if refurbished, will not satisfy wind load requirements for the new lighting fixtures.	
Public bathroom facilities near beach	Commission decided to defer decision until summer .	Summer 2011

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Coral Reef Project	The amended agreement has been executed. GCRA has advised weather conditions did not permit installation of the pins to secure the buoys when contractor was available in late April; now scheduled for late May.	
Terra Mar Entranceway	Commission directed staff at March Roundtable & again in April to proceed with this project. Don Prince is soliciting costs to do the work.	Terra Mar project to come back for final, formal approval at June regular meeting
Neighborhood Projects Program	Staff drafted a program for neighborhood projects and how they would be funded which was reviewed and conceptually approved by the Commission at the February 2011 Roundtable meeting. Commission reconsidered decision at March Roundtable & decided to go to a simpler approach of allowing each neighborhood a maximum of \$30,000 for entryway features. Gave informal to proceed with Terra Mar entryway proposal. Staff is to bring back final Terramar costs when ready. At 4/12 Roundtable Commission was comfortable with delineation of neighborhood definitions, and a variety of types of things that can be included. Issue of security features (traffic gates, security cameras) that will require ongoing costs & maintenance to be determined on case-by-case basis.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>PLANNING &amp; DEVELOPMENT ISSUES</b>		
4337 Seagrape Drive drainage	The property owner (Vitale) submitted a request for extension to the Magistrate on September 15, 2010. The Magistrate granted two extensions for a total of 180 days which expired on March 15. Magistrate imposed fines of \$150 per day, which are running.	
240 Imperial Drive	Delayed construction project which has caused many neighborhood complaints. Property owner has been cited for violations on numerous occasions. Code Magistrate imposed fines retroactively. Although the Bldg Official didn't have authority to limit permit extension he gave in January to 30 days and it runs for 180 days, the Town Atty has determined that does not affect the Magistrate's decision to impose fines for lack of progress on the job. The certification of the lien for the fines was approved by the Magistrate on 4/20.	
Building Services Options	Comm. Vincent appt'd Commission liaison. He & Town Mgr are meeting with several possible contractors for input. A former City Manager has been engaged to develop a new building permit fee schedule. Will complete the work by late May. This is needed before we can put out an RFP for building inspection services. RFP is in final draft stage, so can go out quickly after Commission decides on permit fee schedule.	June Roundtable
Comp Plan Amendments	Adopted. DCA has published notice of intent advertisements.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>FINANCIAL MATTERS</b>		
Banking Services Agreement	Town consolidated various Sun Bank accounts effective October 1. TAtty advises that, with notice, Town can terminate existing agreement. We've drafted an RFP to go to market for banking services agreement proposals, but other issues have taken precedence.	
Improve efficiency in finance operations	Consultant identified numerous efficiency improvement opportunities & is now implementing them as Acting Finance Director. Software upgrades to the financial system have been purchased and installed, and employees trained in those modules. Progress report will be forthcoming.	June
Cash/Investment Report	First quarter's report was sent to the Commission by email February 1 showing we have invested \$2 million in higher yielding instruments. Additional investments to be made this quarter. 2nd Quarter report on the April 27th agenda.	January & April (completed), July, October
Engineering Analysis of Condition of the Town's Sewer System	We received 9 responses this week to the RFP for engineering services to analyze the condition Town's sewer system.	selection of firm and alternate to negotiate with - June
Five Year CIP	Will be done as part of FY 2012 budget prep process. RMA retained to assist in estimating costs of various Master Plan capital projects.	June and July
Grants Applications	1.Town's application to the Coastal Partnership Grant program for assistance with the coral reef project monitoring costs and for educational signage on the beach unlikely to be funded based on the ranking of the application. 2. Town also submitted a CDBG application for continued operation of the seniors program.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>OTHER ACTION ITEMS</b>		
Collection of yard waste	Research on issue of how yard waste is to be disposed of. This assignment was not given high priority in the Town Mgr's goals, so is dormant at the moment.	
Lease of warehouse	No response to letters sent to adjacent City Managers to see if their cities have any interest in renting the warehouse space. RFP for a leasing agent went out in early February. No responses received. RFP has been reissued with longer response time and was sent to large commercial realty companies in area.	June
Revisions to Special Events Policy	Staff to draft amendments to policy to allow for TMgr approval of some events; fee schedule to reflect \$200 for annual events or higher #?; look at issue of a traffic control officer being mandated at some events (discuss w Police Chief). This project is still on the back burner due to other priorities.	
Investigation of Missing Halloween & Easter Items	List of items of significant value missing were provided to BSO on November 3rd. The Police Chief has advised that the investigation is active and it is the Sheriff's policy not to comment on the status of active investigations. Town employees have been questioned by the investigator. Chief Llerena advised the results of investigation were turned over to the State Attorney's Office. Awaiting State Atty's formal decision. Checked with Chief on 4/15. Still no response from State Atty.	
4th of July Fireworks & Pier Lease	Only 2 bids received on fireworks. Eval Committee met and contract being prepared with recommended company. . Draft pier lease is being reviewed by pier operator.	May
NLC Prescription Drug Program	Commission approved in February. Staff has not had time to launch the program.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Solid Waste Disposal Issues	<p>The TC appt'd Comm. Sasser as the Commission's liaison on solid waste disposal strategies. Staff recommended &amp; Commission agreed not to enter into the new ILA. A sufficient number of cities did not sign the proposed ILA for solid waste disposal by the December 31 deadline. Town Mgr has been in consultation with other City Managers re strategies for dealing with the problems in the proposed ILA. A special meeting of the Broward County City &amp; County Managers Association was held last week to discuss the issues and the Town Manager attended that meeting and participated in the discussion. Miramar is preparing an RFP to seek an alternative disposal provider and has asked other cities to join in their RFP. A 5 member City Manager group will work with Miramar on their RFP. LBTS staff will stay abreast of their work and will bring back to the Commission a recommendation on whether we should join in the Miramar RFP. 12th proposed revisions to existing ILA reviewed &amp; found to be to Town's benefit.</p>	<p>12th proposed revisions to current ILA on April 27th agenda</p>

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>PUBLIC SAFETY</b>		
Renegotiation of BSO contract	Commission discussed at last two meetings. Report on this agenda.	May 24th
Nuisance Abatement Ordinance	Have gathered a few examples from other cities & counties.	
LETF - High Definition Cameras		
Designated Areas of Beach for Launching	Commission agreed to discuss this in October.	October

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>MASTER PLAN &amp; PRIORITIES</b>		
Town Manager Performance Plan	Performance goals set. Evaluation to occur in September 2011.	September
Strategic Plan	<p>Master Plan process below is part of Strategic Plan. In addition, Redevelopment Management Associates (RMA) on April 5 provided their recommendations on the economic revitalization issues in the Master Plan, i staffing needs to implement, and a finance plan template. Commission approved on 4/12 a contract w RMA to develop cost estimates &amp; the five year Finance Plan.</p> <p>Presentation made by Cecilia Ward on April 12 identified changes that need to be made in our planning documents, development regulations, and other sections of the Code to accomplish the Town's goals. TAtty &amp; TMgr met with Ward to prioritize project. Doing more detailed to do list in priority order and guesstimate of time &amp; expense involved.</p>	<p>Planning Priorities &amp; Estimated Costs -June Roundtable; RMA Financial Plan at June budget workshop</p>
Update Master Plan -	MPSC review complete. Three public input sessions held in March 1. Commission reviewed citizen input on Master Plan at special workshop on April 25th.	
Master Plan Project Design Concepts	Commission approved contract w Univ of Miami at April special mtg. U of Miami will kick off the Community Design Workshop on Saturday, May 21.	Thursday, May 26 at 6:30 pm public presentation
Town Manager 2011 Assigned Priorities	Provided updated report to Commission at April Roundtable. Assignment to "Accelerate Recycling" was removed from the list of priorities until solid waste contract comes back up for rebidding. Agenda items to now note if items relates to a top priority.	Next Status Report to Commission in July

## TOWN MANAGER'S LIST OF SIGNIFICANT ASSIGNMENTS/PROJECTS

PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>TRAFFIC/PARKING ISSUES</b>		
Imperial Lane Traffic Calming	County Traffic Engineering has rejected both plans we submitted to them. ATM Bentley met with neighborhood residents in December to discuss possible next steps and indicated the Town will work with them on a neighborhood entryway project proposal.	
Trial Valet Project- Phase II	A report on the valet trial program was provided and discussed on the January 25th agenda The Commission approved continuing the valet program for an additional six months.	July
Bel Air traffic light issues	Task assigned to Traffic Engineer.	June
Town-wide Parking Operations Study	Analysis of the existing parking inventory completed. Consultant hired under Town Manager's authority to complete operations and rate . Has made recommendations which were accepted re changing proposed placement of multi-pay stations. Commission adopted recommendations on parking rates on April 27th & rates have been implemented.	
Sea Grape Speed Humps	Traffic counts and speed counts done by both County and BSO. Data has been sent to out Traffic Engineer for review and advice.	
Community Bus Ridership	Bring updated ridership figures to Commission during budget discussions.	September
Expand Sun trolley to LBTS	Mayor interested in possibility of having the Sun Trolley in Fort Lauderdale expand into LBTS or having Pelican Hopper go to Galt Ocean Mile to meet it; investigate option of using Pelican Hopper grant to do so.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
A1A/Commercial Pedestrian Issues	High season traffic and pedestrian counts were done by Hughes & Hughes. Traffic Engineer will participate in U of M A1A design workshops that will address streetscape for this intersection. Presentation of ideas to reduce pedestrian/vehicular conflicts on May 24th agenda.	May 24th
Bcycle Program	Presentation made to the TC in February . TC directed staff to meet with Bcycle reps about possible locations in LBTS and work out details. Staff met with them in February. Received their suggestions on placement of bike station in El Prado Park in late-March. Made suggestions to them on 4/6 re: alternate places for station (near A1A lot or in Pier/Oriana alley). Bcycle had advised us of their preferred sites, provided a draft contract, and has advised they cannot proceed without advertising on their station. Town Atty has determined the commercial advertising on the station is not allowed under the sign code. Will be on the June Roundtable.	June Roundtable

**TOWN MANAGER'S LIST OF SIGNIFICANT ASSIGNMENTS/PROJECTS**

PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>ITEMS DEFERRED TIL NEXT YEAR</b>		
Charter Review Board	City Clerk has researched how Town did this last time and prepared a report for Commission review at Feb Roundtable. TC deferred discussion to a future Roundtable. March Roundtable agenda is lengthy, so will look to put it on in April. Commission decided to defer to March 2012.	Mar-12
Commission Districts Study	Intent is to hire a university to do analysis of balanced districts for the Commission election in 2014; RFP for study to Commission in Spring 2012 so that districts can be designated by September 2012 as required by Charter Article 6-6.1 (5).	Spring 2012
Accelerated Recycling Efforts	Commission agreed at October roundtable that they would like to pursue methods to increase the volume of recycling done in Town. Research done on Recycle Bank and cost of bigger recycling containers. At 4/12 Roundtable, Commission decided to defer further consideration of this issue until 2012 when we prepare the RFP for refuse collection services.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
<b>COMPLETED ASSIGNMENTS IN FY 2010/ 2011</b>		
Payment of past commitment to Chamber of Commerce	Made \$9400 payment to the Chamber in October.	Completed in January
Chamber of Commerce Contract	Town Commission approved the contract with the Chamber on January 25th.	Completed in January
Volunteer Fire Department budget & Agreement	Amendments to the agreement that affect annual payments to the VFD, use of the fire apparatus & equipment reserve, collection of fire inspections fees were approved by the VFD membership on 10/11 and by the Commission on 10/12.	Amendments to contract executed in October
Increased fees for resident permits, and meter rates	Fee increases instituted and meters changed out on Bougainvillea in October. Meter rate increases approved by Commission for May 2011 and October 2011 implementation.	Approved in October, and April
Non-profit & church waiver from temporary sign fees	Adopted in November	Adopted in November
Contracts w Recreation Instructors	Commission approved in Fall, 2010. Karate Instructor has withdrawn due to lack of participation. There has been insufficient interest in paid tennis lessons to conduct the group lessons. Two free tennis clinics have been held with nominal participation.	Completed
Year-End Budget	Commission approved a few adjustments in November 2010.	Completed
Choice Environmental Negotiations on mixed use & multi family carts issues	Mixed used rate change approved in Summer. Revisions to multi-family cart requirements adopted in November and took effect in January, 2011.	Completed
Priorities Discussions	Commission identified top priorities in November.	Completed
Business Uses	Commission adopted an ordinance on second reading in November that significantly expanded the uses allowed in Town.	Completed

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
New Years Eve Pelican Hopper Service	Staff worked out the details of the New Years' Eve service schedule with the community bus contractor and several Town merchants donated funds to pay for the service. Bus operator advises business was steady all night and estimates 125-150 persons rode the Hopper New Years' Eve.	Completed
Notice on Channel 78 re VFD fire safety programs	At 9/27 meeting, TC asked that we put a notice and contact info that VFD can come to multi-family residences to do presentations on fire safety, do a drill, etc. That was done.	Posted in October
Red light camera for Comm/I/A1A intersection	Staff researched the changes to the red light camera programs resulting from the state's decision to regulate it and keep a good share of the resulting revenues, the costs to implement such a program, and various other operational issues and reported our findings to the Commission in October. The Commission made the decision not to implement red light cameras in LBTS at this time.	Commission decided not to install the cameras
Sewer Rate Increase	Sewer rates were analyzed and options presented to the Commission on rate increases in November and again in December. The Commission adopted an ordinance increasing sewer rates on first reading in December. Letters were sent to condominiums advising them of a potential rate increase in November and of the specific rate proposal line January. A postcard advising all Town sewer customers of a proposed rate increase and the date and place of the public hearing (Jan. 25th) on the rate increase was mailed in January. An article was also put in Town Topics on the proposed rate increase. Town Commission adopted the new rates on 1/25 after public hearing. Ordinance took effect immediately. Customers billed under new rate system in February.	Adopted in January
Wings Parking Lot Acquisition	After notice of Town legal action, Wings submitted the deed to the Town. The wall between the two parking lots has been removed and the former Wings lot metered in April.	Completed

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Report on Trial Valet Program	Report provided to the Commission in January and program extended.	Report provided in January
A1A Parking Lot Signs	DOT-approved Parking directional signs were installed in February on AIA & Commercial.	Installed in February
Grants	Town applied for and received grant from the County for the operation of the senior program. Town & BSO also applied for & received a \$2,081 grant from FDLE for the Beach Corridor Crime Suppression activities. Application for funding for monitoring Coral Reef project unlikely to be funded due to low scoring of our application by two members of review committee.	Completed.
Economic Vitality Issue: Parking Garage Pricing Estimate	TM & AsstTM met with President & CEO of USA Parking week of Feb 14th to discuss possibility of them building a garage as they did on City of Deerfield Beach property and the cost of constructing a garage. He advised it was not economically feasible for him to construct a garage in LBTS (market, financing, demand & Town's parking rates were cited as reasons). He also indicated that it costs \$20K per space to construct a garage (w/o land costs) if the lot size was big enough. If a small lot, prices can get up to \$30K. This & more info was provided to Commission in February Town Manager report.	Reported to Commission in February
Possible Acquisition of Property to Expand A1A lot	Town approached by owner of Majestic Apts to buy that property to square of the A1A parking lot. Staff did preliminary investigations & got two appraisals on the property. Learned the property had a foreclosure judgment vs. it and was to be sold at auction in June. Owners' asking price far, far in excess of appraisals. Town does not have option to buy property at auction under current Purchasing rules. Commission expressed no interest in pursuing the property when asked at April roundtable.	

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Reso 1222 - Retiree Health Insurance	Resolution repealed on January 25th.	Completed
Economic Vitality Issue: Revisions of Parking Regulations to spur economic development	Ordinance and resolution implementing parking exemption program were adopted on second reading at special meeting on	Adopted in March
Sewer Fund Issues: Sea Ranch Condos Sewer Billing	Town Commission directed Town Manager to extricate Town from the billing for the 4 Sea Ranch Condos as soon as practical. I met with Pompano officials week of February 14th and sent them a letter in March advising to remove us as name on the account. I also wrote to SRCC building managers & Controller to advise them to contact Pompano to submit paperwork so accounts will be in their name to avoid break in service.	Completed; took effect end of March
Sewer Fund Issues: Discovery of Pompano Billing Error on SRCC	Contractor K Margoles discovered while researching sewer bill issues that Pompano Beach had the Sea Ranch Condos misclassified as commercial rather than residential accounts which resulting in overbilling the Town for many years. Town Manager sought reimbursement, which was limited by statute to approximately \$82,000. Town has received a credit in that amount against our master sewer bill.	
40 Year Inspections Code Hearings	Report was provided to the Commission on the status of the 40 year Inspections in November. We asked the County to consider whether LBTS 40 year inspections violations cases can be heard by the Town's magistrate rather than by the County Board. County has agreed & future cases will go to our Code magistrate.	Completed

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Master Plan: Speaker Series on Urban Design & Redevelopment	We had great attendance at our first presentation in the series by David Sucher, author of <i>City Comforts</i> on Friday, Jan 7th and at the Town walk the next day. Feedback has been very positive from those who participated and we have also been told a good number of people watched the presentation on Channel 78. Elizabeth Plater-Zyberk spoke to a group of about 70 persons on March 1. Gianno Feoli was our third speaker on March 15th and spoke on the topic of the design characteristics of the large number of buildings in LBTS built in the Miami Modern design style.	Completed in March
Master Plan Update: MPSC & Citizen Input on Master Plan	Town Mgr facilitated the MPSC's review and preparation of recommendations to update and modify the various elements of the 2004 Master Plan at their October- December meetings . The MPSC 's recommendations were reviewed by the Commission on January 11th and January 25th and approved with minor modifications. 3 citizen input sessions held in March.	Completed in March
Alley-Oop Beach Commercial License Agreement	Agreement with Alley-Oop executed and in effect.	Completed
List of contracts that expire in 2011	Provided to Commission at March 22 meeting in Town Mgr's report. And discussed at that meeting.	Completed in March
Comp Plan Updates: Greenhouse Gas and Schools	These updates were reviewed by the P&Z Bd in June & July. Notice of intent approved at Aug 25th mtg. Commission approved 1st reading & transmittal of plan amendments to DCA in September. DCA comments received in February. Amendments reviewed by the Commission at March	Adopted on 2nd reading of Ordinance on March 22
Parking Ordinance Clean Up	Revisions to parking ordinance adopted on second reading on March 22.	Adopted in March

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PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Outdated Technology & Economic Vitality: Upgrade Parking Meters	The Commission authorized the purchase of three multi space pay stations in December 2010 and two more in January 2011. Parking consultant provided advice on placement of the meters. Because of potential that costs could exceed \$15,000, we brought the credit card processing award to the Commission for approval on 2/22. Commission approved the item and the pay stations were Installed on March 25th.	New Pay Stations installed on March 25th
Outdated Technology - Finance Systems	Updated version of finance software, purchased accounts receivable module in order to be able to automate some functions, bought a cash register that ties into the finance system which negates need for dual manual entries.	
Audit of 2010 Town Finances	Audit completed. Audit Committee reviewed. Auditor presented report at Commission meeting 3/22. Commission accepted report.	Commission accepted report 3/22
New Community Bus Contract	Staff research revealed agreement with Quality Transport had been renewed over & over again by prior staff w/o Commission approval. Brought piggyback agreement with new company to Commission for review & approval March 22. Termination notice sent to Quality Transport, effective May 31st.	Commission approved March 22
LETF Reimbursement	Town returned \$79,000 to LETF as public safety building project came in well under the appropriation for it.	
Clarification on use of \$1 million El Mar funds from	On 4/4 TMgr sent Commission the language from the agreement with Pier Pointe which indicated the money was to be used to improve the pedestrian	Answer provided in April
Wine Bar Business Use	The Commission is interested in adding the category of wine bars to permitted business uses in Town. The Town Attorney advised wine bars can not be differentiated from other bars, but could be permitted in the restaurant category if more than 51% of revenues come from food. TAtty updated the Commission at the Roundtable 4/12.	
Expand Pelican Hopper Route to Imperial Point Hospital	On 1/11/2011 the Commission asked staff to survey the community to determine interest in a stop at Imperial Point Hospital, including surveying riders. PIO D'Oliveira reported on this research at April Roundtable. Commission decided vs. adding another stop.	

## TOWN MANAGER'S LIST OF SIGNIFICANT ASSIGNMENTS/PROJECTS

PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Open outlet to alley from Pier parking lot	Pier operator made required markings & access to alleyway open.	
Regulation of Beach Recreational Uses	Successful Workshop held January 25th at 5 pm. Staff researched other Broward coastal cities' practices. Commission decided no regulations other than to enforce no teaching wind surfing on Town beaches. Ordinance prohibiting teaching Kiteboarding and launching motorized paragliders on LBTS beach adopted.	Adopted on 2nd reading April 27th
LDR revisions re walls	Adopted.	Adopted on 2nd reading April 27th
Revisions to conditional use regs	Reviewed at March Roundtable. Passed on 1st reading in March. We incorporated into 2nd reading amendments to address the mixed use/flex unit issues Cecelia Ward raised as needed in her report. Also added paid parking as a conditional use on 2nd reading.	Adopted on 2nd reading in April 27th
Sign Code Revisions - Part 1	Primarily legal and housekeeping changes, but some policy issues included in ordinance that was voted on by TC in March & April.	Adopted on 2nd reading in April 27th
LDR revisions re size backup generators	The NOI public hearing was held on 2/22. P&Z has reviewed this already. Was on March Roundtable. At 1st reading on March 22 speaker asked ord be amended to allow generators to be placed in side setback. Staff drafted recommendations on that & Commission reviewed at the April Roundtable.	Adopted on 2nd reading in April

**TOWN MANAGER'S LIST OF SIGNIFICANT ASSIGNMENTS/PROJECTS**

PROJECT AREA	STATUS	TO COMMISSION/ COMMITTEES
Revisions to allow Paid Parking	Language was added to the Conditional Use Ordinance to allow paid parking under some circumstances. This topic was reviewed by the P&Z Board at their February meeting & by the Commission for 1st reading in March. Commission authorized suspension of enforcement for those properties that will qualify under new ordinance language. Owners of Sun Trust lot were granted temporary approval for paid parking. Aruba and the Pier have applied for temporary approval. Hotel advertising paid parking that cannot satisfy conditional use requirements for paid parking has been cited.	Adopted on 2nd reading in April
LETF Camera Project	Commission approved Chief's proposal to buy additional cameras on the April 27th .	Purchase approved in April

INTEROFFICE MEMORANDUM

**TO:** CONNIE HOFFMEAN, TOWN MANAGER  
**VIA:** BUD BENTLEY, ASSISTANT TOWN MANAGER *BB*  
**FROM:** JEFF BOWMAN, ZONING AND CODE SUPERVISOR *JB*  
**SUBJECT:** 4245 OCEAN DR (22 ROOM HOTEL)  
**DATE:** 5/10/2011

On April 26, 2011 staff conducted an inspection on the property located at 4245 Ocean Dr. (Dolphin Harbor Inn). The Town Fire Marshal and I observed several violations throughout the building, which include, but are not limited to the following:

Code Enforcement Violations Issued

1. Exposed electrical outlet near pool equipment room (Missing cover) and exposed wires on roof (broken conduit).
2. Fascia around the outside of the building is in disrepair. Falling in some areas.
3. Trash and debris throughout the landscape areas.
4. Unmaintained landscaping. Dead grass.
5. Address numbers are not displayed on every street front.
6. Bedroom ceiling in unit 2b has collapsed.
7. All gates around the pool must be self-closing and latching.
8. No permits for the blocking up of interior doors adjoining rooms.
9. Unit #2 was demolished (kitchen and bath) without permits.
10. Unit #12 has mold on the bathroom ceiling.
11. Gutters are in disrepair.
12. Relining of parking lot.

Fire Marshal Violations Issued

13. Seventeen (17) missing or inoperable (dead batteries or painted over) smoke detectors in rooms and laundry room.

14. Openings in the fuse panels. Cap unused openings.
15. Post unit numbers on doors.
16. Repair ceiling in room 2b.
17. Gas line at west exterior needs to be capped off.
18. Past due fire extinguishers.
19. Exposed wires at roof line on north building.
20. Exposed Roman wiring at meter room next to room #2.
21. Open ceiling in meter room next to room #2.
22. Storage in electrical room.
23. No permit for work in room #2
24. Missing outlet covers.
25. Some pass through doors between rooms are not the proper type (rating).

All Notices of Violation issued were signed for by the owner of the hotel.

#### Conclusion

The owner was advised to contact a certified electrical contractor while we were on site to address the smoke detectors, which he did. The owner was able to retain a contractor while we were on-site. The Fire Marshal spoke to him advising him of the violations that needed to be addressed immediately. The contractor was also advised to submit an electrical permit application by the next morning, which he did. That permit number is 11-00894. The owner was given a time certain to address all violations. Staff will be monitoring the progress at the hotel regularly and working with the owners and operators in an effort to facilitate and ensure all work is completed and completed properly.

#### State Agency Report

Staff researched the last inspection conducted on this property by the Florida Department of Business and Professional Regulations / Division of Hotel and Restaurants. Outlined below are the inspection results performed on October 19, 2010:

<u>Violation</u>	<u>Observation</u>
<u>04-01-2</u>	Critical. Observed a smoke detector hanging by the wires. For reporting purposes only. Room #7.
<u>05-01</u>	Critical. Observed no hearing impaired smoke detector(s) available.
<u>17-02</u>	Observed no mattress pad provided on the bed. Corrected On Site.
<u>18-02</u>	Observed a piece of furniture in disrepair. Bottom mattress in disrepair

23-01

Critical. Observed glassware/dishware not sanitized and no notification of exception to sanitization requirements posted. Corrected On Site.

Their overall findings at this property “met inspection standards”.

*✓ Copy to Chief Paine 5/11/11*



4 B EVES DRIVE, SUITE 200 P.O. BOX 961 MARLTON, NJ 08053-3112  
TEL: (856) 985-5600 FAX: (856) 810-9065

OFFICE OF THE

MAY 03 2011

TOWN MANAGER

April 25, 2011

Ms. Connie Hoffman, Town Manager  
Lauderdale By The Sea  
4501 Ocean Drive  
Lauderdale By The Sea, FL 33308

RE: Lauderdale By The Sea, Broward County, FL  
Public Protection Classification: 3  
Effective Date: August 1, 2011

Dear Ms. Hoffman:

We wish to thank you, Fire Chief Steve Paine, Mr. Mark Darmanin and Mr. Donald A. Bayler for your cooperation during our recent Public Protection Classification (PPC) survey. ISO has completed its analysis of the structural fire suppression delivery system provided in your community. The resulting classification is indicated above.

Enclosed is a summary of the ISO analysis of your fire suppression services. If you would like to know more about your community's PPC classification, or if you would like to learn about the potential effect of proposed changes to your fire suppression delivery system, please call us at the phone number listed below.

ISO's Public Protection Classification Program (PPC) plays an important role in the underwriting process at insurance companies. In fact, most U.S. insurers – including the largest ones – use PPC information as part of their decision-making when deciding what business to write, coverage's to offer or prices to charge for personal or commercial property insurance.

Each insurance company independently determines the premiums it charges its policyholders. The way an insurer uses ISO's information on public fire protection may depend on several things – the company's fire-loss experience, ratemaking methodology, underwriting guidelines, and its marketing strategy.

PPC is important to communities and fire departments as well. Communities whose PPC improves may get lower insurance prices. PPC also provides fire departments with a valuable benchmark, and is used by many departments as a valuable tool when planning, budgeting and justifying fire protection improvements.

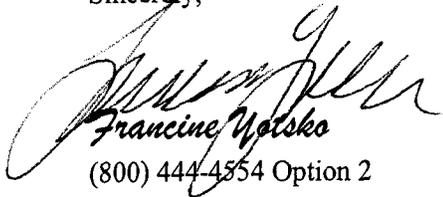
ISO appreciates the high level of cooperation extended by local officials during the entire PPC survey process. The community protection baseline information gathered by ISO is an essential foundation upon which determination of the relative level of fire protection is made using the Fire Suppression Rating Schedule.

The classification is a direct result of the information gathered, and is dependent on the resource levels devoted to fire protection in existence at the time of survey. Material changes in those resources that occur after the survey is completed may affect the classification. Although ISO maintains a pro-active process to keep baseline information as current as possible, in the event of changes please call us at 1-800-444-4554, option 2 to expedite the update activity.

ISO is the leading supplier of data and analytics for the property/casualty insurance industry. Most insurers use PPC classifications for underwriting and calculating premiums for residential, commercial and industrial properties. The PPC program is not intended to analyze all aspects of a comprehensive structural fire suppression delivery system program. It is not for purposes of determining compliance with any state or local law, nor is it for making loss prevention or life safety recommendations.

If you have any questions about your classification, please let us know.

Sincerely,



Francine Yatsko  
(800) 444-4554 Option 2

nb

Encl.

cc: Chief Steve Paine, Lauderdale By The Sea Volunteer Fire Department, Inc.  
Mr. Donald A. Bayler, Utility Director, City of Pompano Beach  
Mr. Mark Darmanin, Utility Manager, City of FT. Lauderdale  
Lieutenant Cynthia Adamsky, Broward Sheriff's Department

**PUBLIC PROTECTION  
SUMMARY REPORT**

**Lauderdale By The Sea  
Florida**

**Prepared by**

**Insurance Services Office, Inc.  
4B Eves Drive, Suite 200  
Marlton, New Jersey 08053-3112  
(856) 985-5600**

**March 2011**

## Background Information

### Introduction

ISO collects and evaluates information from communities in the United States on their structure fire suppression capabilities. We analyze the data using our Fire Suppression Rating Schedule (FSRS™) and then assign a Public Protection Classification (PPC™) number to the community. The surveys are conducted whenever it appears that there is a possibility of a classification change. As such, the PPC program provides important, up-to-date information about fire protection services throughout the country.

A community's investment in fire mitigation is a proven and reliable predictor of future fire losses. Statistical data on insurance losses bears out the relationship between excellent fire protection – as measured by the PPC program – and low fire losses. So, insurance companies use PPC information for marketing, underwriting, and to help establish fair premiums for homeowners and commercial fire insurance. In general, the price of fire insurance in a community with a good PPC is substantially lower than in a community with a poor PPC, assuming all other factors are equal.

ISO is an independent company that serves insurance companies, communities, fire departments, insurance regulators, and others by providing information about risk. ISO's expert staff collects information about municipal fire suppression efforts in communities throughout the United States. In each of those communities, ISO analyzes the relevant data and assigns a Public Protection Classification – a number from 1 to 10. Class 1 represents an exemplary fire suppression program, and Class 10 indicates that the area's fire suppression program does not meet ISO's minimum criteria.

ISO's PPC program evaluates communities according to a uniform set of criteria, incorporating nationally recognized standards developed by the National Fire Protection Association and the American Water Works Association. A community's PPC depends on:

- **Fire alarm and communication systems**, including telephone systems, telephone lines, staffing, and dispatching systems
- **The fire department**, including equipment, staffing, training, and geographic distribution of fire companies
- **The water supply system**, including condition and maintenance of hydrants, alternative water supply operations, and a careful evaluation of the amount of available water compared with the amount needed to suppress fires up to 3,500 gpm.

### Data Collection and Analysis

ISO has evaluated and classified over 44,000 fire protection areas across the United States using its Fire Suppression Rating Schedule (FSRS). We use a combination of a meeting between a trained ISO field representative and the dispatch center coordinator, community fire official, and water superintendent in conjunction with a comprehensive questionnaire to collect the data necessary to determine the PPC number. In order for a community to obtain a classification better than a Class 9, three elements of fire suppression features are reviewed. These three elements are the fire alarm and communication system, the fire department and the water supply system.

A review of the **fire alarm and communication system** accounts for 10% of the total classification. The review focuses on the community's facilities and support for handling and dispatching fire alarms. This section is weighted at **10 points** broken up as follows:

- Telephone Service 2 points
- Number of Needed Operators 3 points
- Dispatch Circuits 5 points

A review of the **fire department** accounts for 50% of the total classification. ISO focuses on a fire department's first-alarm response and initial attack to minimize potential loss. In this section, ISO reviews such items as engine companies, ladder or service companies, distribution of fire stations and fire companies, equipment carried on apparatus, pumping capacity, reserve apparatus, department personnel, and training. The fire department section is weighted at **50 points** distributed as follows:

- Engine Companies 10 points
- Reserve Pumpers 1 point
- Pumper Capacity 5 points
- Ladder/Service Companies 5 points
- Reserve Ladder/Service Trucks 1 point
- Distribution of Companies 4 points
- Company Personnel 15 points
- Training 9 points

A review of the **water supply system** accounts for 40% of the total classification. ISO reviews the water supply a community uses to determine the adequacy for fire-suppression purposes. We also consider hydrant size, type, and installation, as well as the inspection frequency and condition of fire hydrants. The water supply system is weighted at **40 points** with concern for the following:

- Credit for the Supply System 35 points
- Hydrant Size, Type & Installation 2 points
- Inspection/Condition of Hydrants 3 points

There is one additional factor considered in calculating the final score – **Divergence**.

Even the best fire department will be less than fully effective if it has an inadequate water supply. Similarly, even a superior water supply will be less than fully effective if the fire department lacks the equipment or personnel to use the water. The preliminary FSRS score is subject to modification by a divergence factor, which recognizes disparity between the effectiveness of the fire department and the water supply.

The Divergence factor mathematically reduces your preliminary scores if the fire department and water-supply scores are out of line with each other. The factor is introduced in the final equation.

## **Public Protection Classification Number**

The PPC number assigned to the community will depend on the community's score on a 100-point scale:

<b>PPC</b>	<b>Points</b>
1	90.00 or more
2	80.00 to 89.99
3	70.00 to 79.99
4	60.00 to 69.99
5	50.00 to 59.99
6	40.00 to 49.99
7	30.00 to 39.99
8	20.00 to 29.99
9	10.00 to 19.99
10	0.00 to 9.99

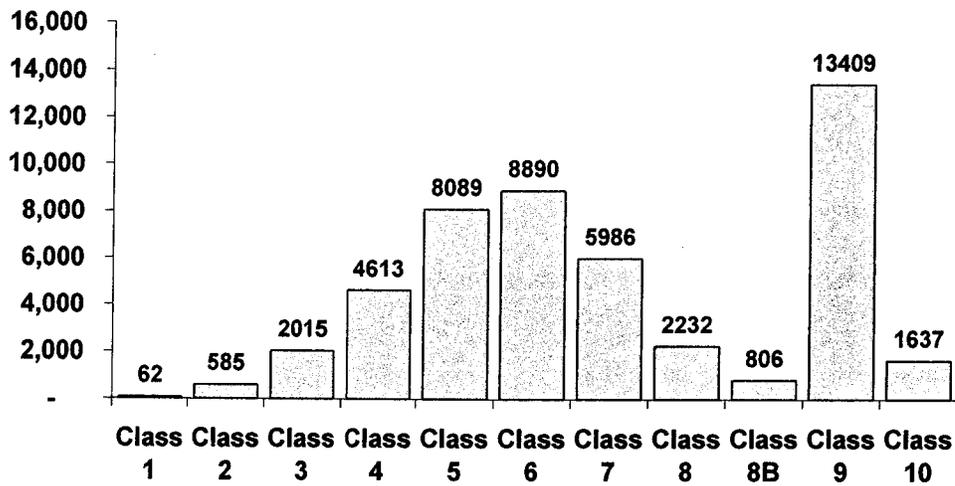
The classification numbers are interpreted as follows:

- Class 1 through (and including) Class 8 represents a fire suppression system that includes an FSRS creditable dispatch center, fire department and water supply.
- Class 8B is a special classification that recognizes a superior level of fire protection in otherwise Class 9 areas. It is designed to represent a fire protection delivery system that is superior except for a lack of a water supply system capable of the minimum FSRS fire flow criteria of 250 gpm for 2-hours.
- Class 9 is a fire suppression system that includes a creditable dispatch center, fire department but no FSRS creditable water supply.
- Class 10 does not meet minimum FSRS criteria for recognition.

## Distribution of Public Protection Classification Numbers

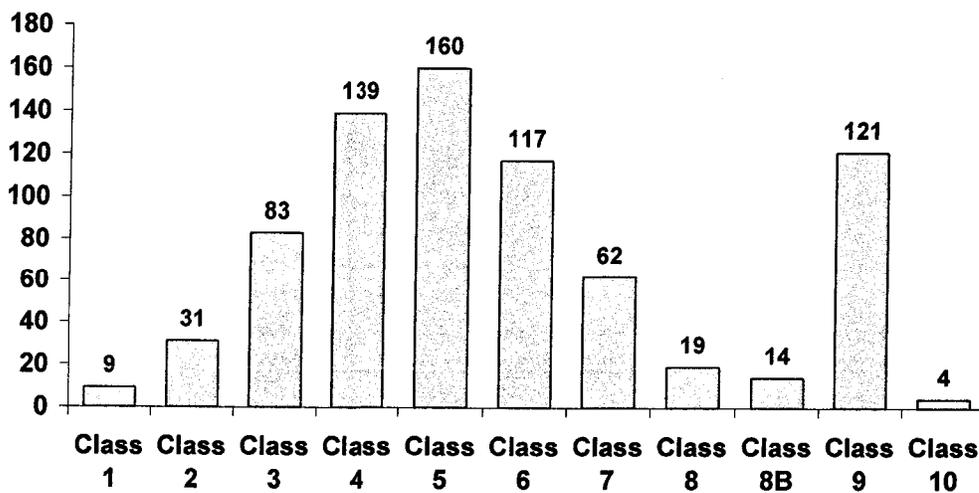
The 2010 published countrywide distribution of communities by the Public Protection Classification number is as follows:

### Countrywide



The 2010 published distribution of communities by the Public Protection Classification number is as follows:

### Florida



## Assistance

The PPC program offers help to communities, fire departments and other public officials as they plan for, budget, and justify improvements. ISO is also available to assist in the understanding of the details of your evaluation.

ISO Public Protection representatives can be reached by telephone at (800) 444-4554. The technical specialists at this telephone number have access to the details of your evaluation and can effectively speak with you about your PPC questions. What's more, we can be reached via the internet at [www.isomitigation.com/talk/](http://www.isomitigation.com/talk/).

We also have a website that is dedicated to our Community Mitigation Classification programs at [www.isomitigation.com](http://www.isomitigation.com). Here, fire chiefs, building code officials, community leaders and other interested citizens can access a wealth of data describing the criteria used in evaluating how cities and towns are protecting residents from fire and other natural hazards. This website will allow you to learn more about ISO's Public Protection Classification program. The website provides important background information and insights about the PPC grading processes. Visitors to the site can download information, see statistical results and also contact ISO for assistance.

In addition, on-line access to the Fire Suppression Rating Schedule and its commentaries is available to registered customers for a fee. However, fire chiefs and community chief administrative officials are given access privileges to this information without charge.

To become a registered fire chief or community chief administrative official, send your request on fire department or chief administrative official's letterhead to:

ISO  
Customer Service  
545 Washington Boulevard  
Jersey City, NJ 07310-1686

Be sure to include your name and title, address, daytime phone number and e-mail address. ISO will send you an e-mail containing your ID and password.

## Classification Details

### Public Protection Classification

On Feb 04, 2011 ISO concluded its review of the fire suppression features being provided for/by Lauderdale By The Sea. The resulting classification is a **Class 3**.

If the classification is a single class, the classification applies to all properties in the community. If the classification is a "split" class (e.g., 6/9), the following applies:

- The first class (e.g., "6" in a 6/9) applies to properties within 5-road miles of a recognized fire station and within 1,000 feet of a fire hydrant or alternate water supply.
- Class 8B or class 9 applies to properties beyond 1,000 feet of a fire hydrant but within 5-road miles of a recognized fire station.
- Alternative Water Supply: The first class (e.g., "6" in a 6/10) applies to all properties within 5-road miles of a recognized fire station with no hydrant distance requirement.
- Class 10 applies to properties over 5-road miles of a recognized fire station.

## Summary Evaluation Analysis

The following points represent the analysis of the application of the criterion outlined in the FSRS of four topics– Receiving and Handling Fire Alarms, Fire Department, Water Supply and the Divergence factor for Lauderdale By The Sea:

FSRS Feature	Earned Credit	Credit Available
<b>Receiving and Handling Fire Alarms</b>		
414. Credit for Telephone Service	2.00	2
422. Credit for Operators	3.00	3
432. Credit for Dispatch Circuits	5.00	5
<b>440. Credit for Receiving and Handling Fire Alarms</b>	<b>10.00</b>	<b>10</b>
<b>Fire Department</b>		
513. Credit for Engine Companies	10.00	10
523. Credit for Reserve Pumpers	0.50	1
532. Credit for Pumper Capacity	5.00	5
549. Credit for Ladder Service	4.82	5
553. Credit for Reserve Ladder and Service Trucks	0.71	1
561. Credit for Distribution	3.55	4
571. Credit for Company Personnel	6.23	15
580. Credit for Training	4.68	9
<b>590. Credit for Fire Department</b>	<b>35.49</b>	<b>50</b>
<b>Water Supply</b>		
616. Credit for Supply System	35.00	35
621. Credit for Hydrants	2.00	2
631. Credit for Inspection and Condition	3.00	3
<b>640. Credit for Water Supply</b>	<b>40.00</b>	<b>40</b>
<b>Divergence</b>		
700: Divergence	-5.80	--
<b>Total Credit</b>	<b>79.69</b>	<b>100.00</b>

## General Information

To determine the Total Credit, the points for Receiving and Handling Fire Alarms, Fire Department and Water Supply are added together and the Divergence factor is applied. To establish the points for each category, FSRS items labeled as "Credit for..." are totaled. These particular items are intermediate values. Often these intermediate values are based upon a 100-point scale, but they can be more (e.g., 654 for Item 513, "Credit for Engine Companies"). The ratios between the actual points scored in each of these subsections and 100 (or, as in Item 513, other scale number) are then multiplied by the points available for the subsection.

For instance, Item 414 "Credit for Telephone Service" is valued at 2-points. To determine the credit earned, the totals for Item 411 "Review of Telephone Lines" (TL), Item 412 "Review of Telephone Directory" (TD), and Item 413 "Review of Recording Device" (RD) are summed. In Item 411, up to 60-points can accrue; Item 412 has a combined value of 20-points; and 20-points are available for Item 413. The sum of these three Items is divided by 100 and then multiplied by the 2-point weight in Item 414 to determine the final score for "Credit for Telephone Service (CTS)".

The formula for Item 414 "Credit for Telephone Service (CTS)" looks like this:

$$CTS = \frac{TS}{100} \times 2$$

Where  $TS = TL + TD + RD$

## Detailed Evaluation Analysis

On the following pages are the scoring details of each category of the evaluation of Lauderdale By The Sea. These details relate only to the fire insurance classification of your jurisdiction. They are not for property loss prevention or life safety purposes and no life safety or property loss recommendations are made.

At the end of the scoring details for Receiving and Handling Fire Alarms, Fire Department, and Water Supply the relative class is indicated. The relative class represents the classification each category would have achieved if the individual score was translated into a 100-point scale instead of the points available for that category.

## **Receiving and Handling of Fire Alarms**

Ten percent of a community's overall score is based on how well the communications center receives and dispatches fire alarms. Our field representative evaluated:

- the telephone service, including the number of telephone lines coming into the center
- the listing of the emergency number and business number in the telephone directory
- the automatic recording of emergency calls
- the communications center, including the number of operators on duty and awake at the center
- the dispatch circuits and how the center notifies firefighters about the location of the emergency

### **Item 414 - Credit for Telephone Service**

The first item reviewed is Item 414 "Credit for Telephone Service". This item reviews the facilities provided for the public to report fires including the telephone line used to report an emergency, business and private alarm lines including progression of emergency calls to business lines. Also analyzed is the listing of fire and business numbers in the telephone directory and the automatic recording of emergency calls. ISO uses National Fire Protection Association (NFPA) 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems* as the reference for this section.

To determine the score for Item 414, three sub-items (Item 411, Item 412, and Item 413) needed to be evaluated. The details are as follows:

<b>Item 411 - "Review of Telephone Lines (TL)"</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<p><b>A. Number of needed fire lines*</b></p> <p>For maximum credit, there should be 8 incoming telephone lines reserved for receiving notification of fires. The Communication Center serving Lauderdale By The Sea has 19 lines reserved.</p> <p>The telephone directory listed both a business and an emergency number.</p>	<b>25.00</b>	<b>25</b>
<p><b>B. Number of needed fire, business, and private alarm lines*</b></p> <p>For maximum credit, there should be 8 incoming lines reserved for notification of fires (and other emergency calls) plus 1 additional line for conducting other fire department business and, if applicable, for private alarms.</p> <p>The Communication Center serving Lauderdale By The Sea has 1 line in addition to the 19 lines reserved for receiving notification of fires (and other emergency calls).</p> <p>The telephone directory listed both a business and an emergency number.</p>	<b>25.00</b>	<b>25</b>
<p><b>C. Progression of emergency calls to business lines</b></p> <p>For maximum credit, unanswered emergency calls should progress to the business number.</p>	<b>10.00</b>	<b>10</b>
<p><b>D. If detailed information of a fire is received and transmitted through more than one communication center, DEDUCT</b></p> <p>For maximum credit, fire calls should be immediately transferred from the answering point to the dispatcher who will then obtain the needed information from the caller for dispatching.</p>	<b>0.00</b>	<b>-20</b>
<b>Review of Telephone Lines (TL) total:</b>	<b>60.00</b>	<b>60</b>

\*Note: When only one telephone number is listed in the telephone directory the telephone lines provided can not be reserved for emergency calls because the general public is not given a choice of telephone lines to use. Therefore, the operator/telecommunicator must accept both emergency and business calls over the same lines. The number of needed fire, business, and alarm lines will show a reduction in credit.

<b>Item 412 - "Review of Telephone Directory (TD)"</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<p><b>A. Emergency number on the inside front cover or the front page</b></p> <p>For maximum credit, the fire emergency telephone number should be printed on the inside front cover or front page of the white pages in the telephone directory.</p>	<b>10</b>	<b>10</b>
<p><b>B. Emergency number and business number listed under "Fire Department"</b></p> <p>For credit, both the number to report a fire and the fire department business number should be listed under "FIRE DEPARTMENT" in the white pages (or government section) of the telephone directory.</p> <p>The fire number is listed and the business number is listed.</p>	<b>5</b>	<b>5</b>
<p><b>C. Emergency number and business number listed under the name of the city</b></p> <p>For credit, both the number to report a fire and the fire department business number should be listed under the community or fire district in the white pages (or government section) of the telephone directory.</p> <p>The fire number is listed and the business number is listed.</p>	<b>5</b>	<b>5</b>
<p><b>D. If the numbers for individual fire stations are listed, DEDUCT</b></p> <p>For no deduction of points, the individual fire stations should not be listed in the telephone directory.</p>	<b>0</b>	<b>-10</b>
<b>Review of Directory Listing (TD) total:</b>	<b>20</b>	<b>20</b>

<b>Item 413 - "Review of Recording Device (RD)"</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<p><b>A. Review of the recording device (RD):</b></p> <p>For credit, a voice recorder should automatically record all emergency calls and the operator should be able to immediately play back any emergency call to review the conversation.</p>	<b>20</b>	<b>20</b>
<b>Review of Recording Device (RD) total:</b>	<b>20</b>	<b>20</b>

The Items "TL", "TD", and "RD" are then added together and divided by the total possible points (100 points) to determine the factor that is applied to the two points available for the "Credit for Telephone Service (CTS)". The points calculated for Lauderdale By The Sea for this item are:

**CTS = 2.00 points**

#### **Item 422 - Credit for Operators**

The second item reviewed is Item 422 "Credit for Operators (CTO)". This item reviews the number of operators on duty and awake at the center to handle fire calls and other emergencies. All emergency calls including those calls that do not require fire department action are reviewed to determine the proper staffing to answer emergency calls and dispatch the appropriate emergency response. NFPA 1221, *Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems*, recommends that ninety-five percent of emergency calls shall be answered within 15 seconds and ninety-nine percent of emergency calls shall be answered within 40 seconds. In addition, NFPA recommends that ninety-five percent of emergency calls shall be dispatched within 60 seconds and ninety-nine percent of calls shall be dispatched within 90 seconds of answering the call.

To receive full credit for operators on duty, ISO must review documentation to show that your communication center meets NFPA 1221 call answering and dispatch time performance measurement standards. This documentation may be in the form of performance statistics or other performance measurements compiled by the 9-1-1 software or other software programs that you are currently using such as Computer Aided Dispatch (CAD) or Management Information System (MIS). If the necessary data is not available, the number of needed operators will be determined by specification criteria using a "Call Volume Matrix Table" (see the following page).

**CALL VOLUME MATRIX TABLE #1  
For Public Safety Answering Points that  
Perform Call Taking and Dispatching**

<b>Alarms per Year</b>	<b>Number of Needed Telecommunicators</b>
Less than 731	1*
731 to 10,000	2
10,001 to 25,000	4**
25,001 to 50,000	5**
50,001 to 100,000	6**
100,001 to 150,000	7**
150,001 to 200,000	8**
200,001 to 250,000	9**
250,001 to 300,000	10**
Over 300,000***	11**

**CALL VOLUME MATRIX TABLE #2  
For Public Safety Answering Points that  
Perform Call Taking Without Dispatching**

<b>Alarms per Year</b>	<b>Number of Needed Telecommunicators</b>
Less than 10,001	1
10,001 to 50,000	2
50,001 to 100,000	4**
100,001 to 150,000	5**
150,001 to 200,000	6**
200,001 to 250,000	7**
250,001 to 300,000	8**
Over 300,000***	9**

\* Communication centers that provide emergency medical dispatching (EMD) protocols need two telecommunicators on duty at all times.

\*\* Includes a supervisor in the communication center.

\*\*\* For every 10 additional calls (alarms) that are averaged per hour (87,600 calls per year), one additional telecommunicator is added.

To determine the score for Item 422, two sub-Items (421.A and 421.B) need to be summed. The details are as follows:

<b>Item 421 - "Review of Operators (PO)"</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<b>A. Number of operators on duty (OD):</b> For maximum credit, there should be 14 operators on duty at all times. There are an average of 18.00 operators on duty at the communication center.	<b>80.00</b>	<b>80</b>
<b>B. Number of operators awake at all times (OA):</b> For maximum credit, all operators should be awake at all times. There is an average of 18.00 operators awake at all times.	<b>20.00</b>	<b>20</b>
<b>Review of Operators (PO) total:</b>	<b>100.00</b>	<b>100</b>

After the items "OD" and "OA" are summed up to determine the points received for the "Review of Operators", the sum is divided by the total possible points (100 points) to determine the factor that is applied to the three points available for the "Credit for Operators (CTO)". The points calculated for Lauderdale By The Sea for this item are:

**CTO = 3.00 points**

#### **Item 432 - Credit for Dispatch Circuits**

The third item reviewed is Item 432 "Credit for Dispatch Circuits (CDC). This item reviews the dispatch circuit facilities used to transmit alarms to fire department members. A "Dispatch Circuit" is defined in NFPA 1221 as "A circuit over which an alarm is retransmitted automatically or manually from the communication center to an emergency response facility" (fire station or fire department member). All fire departments (except single fire station departments with full-time firefighter personnel receiving alarms directly at the fire station) need adequate means of notifying all firefighter personnel of the location of reported structure fires. The dispatch circuit facilities should be in accordance with the general criteria of NFPA 1221. "Alarms" are defined in this Standard as "A signal or message from a person or device indicating the existence of a fire, medical emergency or other situation that requires fire department action".

There are two different levels of dispatch circuit facilities provided for in the Standard – a primary dispatch circuit and a secondary dispatch circuit. In jurisdictions that receive over 730 alarms or more per year (average of two alarms per 24-hour period), two separate and dedicated dispatch circuits, a primary and a secondary, are needed. In jurisdictions receiving fewer than 730 alarms per year, a second dedicated dispatch circuit is not needed. Dispatch circuit facilities installed but not used or tested (in accordance with the NFPA Standard) receive no credit.

Your score for Credit for Dispatch Circuits (CDC) is influenced by monitoring the integrity of the primary dispatch circuit. There are up to 1.5 points available for this Item. Monitoring for integrity involves installing automatic systems that will detect faults and failures and send visual and audible indications to appropriate communications center (or dispatch center) personnel. ISO uses NFPA 1221 to guide the evaluation of this item.

Additional points are available for dispatch recording facilities at the Communication Center. All alarms that are transmitted over the required dispatch circuits need to be automatically recorded (including the dates and times of transmission) to earn the maximum points in this item.

ISO's evaluation includes a review of the communication system's emergency power supplies. To receive maximum credit, two sources of power need to be provided for the operation of the communications network including dispatch circuits and its related support systems and equipment. A common arrangement is to have the primary power come from a utility distribution system and a secondary power source from an automatic starting emergency engine-generator and/or an Uninterruptible Power Supply (UPS) and Battery System – (SEPSS-Stored Emergency Power Supply Systems).

To determine the score for Item 432, four sub items (Item 431.A, Item 431.B, Item 431.C and Item 431.D) needed to be evaluated. The criterion is as follows:

The score that Lauderdale By The Sea received for Item 432 was calculated as follows:

<b>Item 432 - "Credit for Dispatch Circuits (CDC)"</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<p><b>Item 431A - "Dispatch Circuits Provided"</b></p> <p>The points are determined by prorating the value of the type of dispatch circuit using the percentage of members dependent upon each circuit.</p>	<b>40.00</b>	<b>40</b>
<p><b>Item 431B - "Monitoring for Integrity of Circuit"</b></p> <p>For maximum credit, the dispatch circuit should have an automatic system that will detect faults and failures and send visual and audible indications to appropriate personnel.</p>	<b>30.00</b>	<b>30</b>
<p><b>Item 431C - "Dispatch Recording Facilities at Communication Center"</b></p> <p>For maximum credit, all alarms that are transmitted over the required dispatch circuits need to be automatically recorded.</p>	<b>10.00</b>	<b>10</b>
<p><b>Item 431D - "Emergency Power Supply"</b></p> <p>For maximum credit, emergency power supplies need to be provided and regularly tested.</p>	<b>20.00</b>	<b>20</b>
<p><b>Item 431E - "When no circuit is needed"</b></p> <p>If all responding fire fighters are in the same building as the communication center and are alerted, no dispatch circuit is needed and the maximum points are credited. However, the community does not operate in this fashion.</p>	<b>0.00</b>	<b>100</b>
<b>Dispatch Circuits (DC) total:</b>	<b>100.00</b>	<b>100</b>

After the Items in 431 are summed up to determine the points received for the "Credit for Dispatch Circuits", the sum is divided by the total possible points (100 points) to determine the factor that is applied to the five points available for the "Credit for Dispatch Circuits (CDC)". The points calculated for Lauderdale By The Sea for this item are:

**CDC = 5.00 points**

The final step in determining the credit for "Receiving and Handling Fire Alarms" is to add up the following three components:

Item	Earned Credit	Credit Available
414. Credit for Telephone Service (CTS)	2.00	2
422. Credit for Operators (CTO)	3.00	3
432. Credit for Dispatch Circuits (CDC)	5.00	5
<b>Total Credit:</b>	<b>10.00</b>	<b>10</b>

If the score Lauderdale By The Sea achieved for Receiving and Handling Fire Alarms was translated into a 100 point scale instead of the 10 points actually used, the relative Fire Suppression Rating Schedule classification for this section of the review would be a (relative) **Class 1**.

### **Fire Department**

Fifty percent of a community's overall score is based upon the fire department's structure fire suppression system. ISO's field representative evaluated:

- Engine and ladder/service vehicles including reserve apparatus
- Equipment carried
- Distribution of fire companies
- Available and/or responding firefighters
- Automatic Aid with neighboring fire departments
- Training

### **Item 501 - Basic Fire Flow**

The Basic Fire Flow for the community is determined by the review of the needed fire flows for selected buildings in the community. The following building addresses were used to determine the Basic Fire Flow:

- 2500 gpm      1 East Commercial Boulevard, Lauderdale By The Sea
- 2250 gpm      4433 Bougainville Drive, Lauderdale By The Sea
- 2000 gpm      2001 South Ocean Boulevard, Lauderdale By The Sea
- 1750 gpm      4116 North Ocean Drive, Lauderdale By The Sea
- 1750 gpm      4347 Bougainville Drive, Lauderdale By The Sea

The fifth largest needed fire flow is determined to be the Basic Fire Flow. The maximum that the Basic Fire Flow can be is 3500 gpm. The Basic Fire Flow for Lauderdale By The Sea has been determined to be 1750 gpm.

### Item 513 - Credit for Engine Companies

The first item reviewed is Item 513 "Credit for Engine Companies". This item reviews the number of engine companies, their pump capacity, hose testing, pump testing and the equipment carried on the in-service pumpers. To be recognized, pumper apparatus must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* which include a minimum 250 gpm pump, an emergency warning system, a 300 gallon water tank and hose.

The review of the number of needed pumpers considers the Basic Fire Flow; the response distance to built-upon areas; the method of operation; and the response outside the city.

### Item 501.A. Number of Needed Engine Companies (NE):

BASIC FIRE FLOW, GPM	ENGINE COMPANIES
500 - 1,000	1
1,250 - 2,500	2
3,000 - 3,500	3

For maximum credit, the FSRS indicates that 2 engine companies are needed in the fire district. This number is calculated as follows:

The greater of:

- 2 engine companies to support a Basic Fire Flow of 1750 gpm.
- 1 engine company to provide fire suppression services to areas with a reasonable population of properties without a responding fire station within 1½ miles.
- 2 engine companies based upon the method of operation of the fire department.

The FSRS recognizes that there are 2 engine companies in service.

For maximum credit in the FSRS, at least two engine companies should respond for all reported first alarms for fires in buildings. The credit for engine companies has been reduced by 0.0 percent because the FSRS review deemed there is an adequate response to all reported fires in the district.

For each engine, ISO reviews the pump capacity as indicated by a pumper test, the hose (including hose testing) and the equipment carried.

For maximum credit in the schedule, pumper service tests must be done annually and documented. ISO evaluates the pumper service tests using NFPA 1911, *Standard for the Inspection, Maintenance, Testing and Retirement of In-service Automotive Fire Apparatus*. This Standard indicates that the service tests should be conducted for:

- 20 minutes @ 100% capacity at 150 psi
- 10 minutes @ 70% capacity at 200 psi
- 10 minutes @ 50% capacity at 250 psi

Other factors such as the "overload test" are not evaluated in the FSRS and are not required for FSRS credit.

For maximum credit in the schedule, hose tests must be performed annually and documented. ISO evaluates a hose testing program using NFPA 1962, *Standard for the Inspection, Care and Use of Fire Hose, Couplings and Nozzles and the Service Testing of Fire Hose*. Multiple jacket-lined hose manufactured prior to July, 1987 must be service tested at 250 psi. Relay supply hose that is 3½ inch to 5 inch should be tested at 200 psi and 5 inch to 6 inch relay supply hose should be tested at 150 psi. Hose that has been manufactured in July, 1987 and after should be tested to the service test pressure the manufacturer stenciled on the hose. All hose should be serviced tested for a minimum of 3 minutes.

The FSRs also reviews Automatic Aid. Automatic Aid is considered in the review as assistance dispatched automatically by contractual agreement between two communities or fire districts. That differs from mutual aid or assistance arranged case by case. ISO will recognize an Automatic Aid plan under the following conditions:

- It must be prearranged for first-alarm response according to a definite plan. It is preferable to have a written agreement, but ISO may recognize demonstrated performance.
- The aid must be dispatched to reported structure fires on the initial alarm.
- The aid must be provided 24 hours a day, 365 days a year.
- The aid must offset a need in the community ISO is surveying. For example, if a community needs a ladder company and the fire department does not have one, but a neighboring community's ladder company responds by Automatic Aid agreement, credit may be available.
- The aiding ladder company must cover at least 50% of the needed ladder company Standard Response District by hydrant count in the community being graded.

FSRS Item 512.D "Automatic Aid Engine Companies" responding on first alarm and meeting the needs of the city for basic fire flow and/or distribution of companies are factored based upon the value of the Automatic Aid plan (up to 0.90 can be used as the factor). The Automatic Aid factor is determined by a review of the Automatic Aid provider's communication facilities, how they receive alarms from your community, inter-department training with your fire department and the fire ground communications capability with your department.

For each engine company, the credited Pump Capacity (PC), the Hose Carried (HC), the Equipment Carried (EC) and a factor for an overweight apparatus all contribute to the calculation for the percent of credit the FSRs provides to that engine company.

After the Items in 512 are summed to determine the points received for the "In Service Total (EC)", the sum is divided by the total possible points (654 or 554) and then multiplied by the Needed Engine Companies (NE). Next, this is multiplied by the appropriate factor representing the percent of built-upon area of the city with first alarm response of one or two engine companies. Finally, this product is multiplied by the 10 points available for the "Credit for Engine Companies (CEC)" to determine the final score for this item.

The points calculated for Lauderdale By The Sea for this item were:

**CEC = 10.00 points**

### **Item 523 - Credit for Reserve Pumpers**

The second pumper item reviewed is Item 523 "Credit for Reserve Pumpers (CRP)". This item reviews the number and adequacy of the pumpers and their equipment with one (or more in larger communities) pumper out of service. The number of needed reserve pumpers is 1 for each 8 needed engine companies determined in Item 513, or any fraction thereof. The number of reserve pumpers credited in this item will not exceed the number of needed reserve pumpers. If only one reserve pumper is needed, and more than one reserve pumper is provided in the city, only the best equipped reserve pumper will be credited. Reserve pumpers are reviewed for pump capacity, hose carried, and equipment in the same manner as described in Item 512 except that Automatic Aid reserve pumpers are not considered.

The value of the Reserve Pumper Credit (RPC) is determined by multiplying the credited Pump Capacity (PC) times the credit for the Hose Carried (HC) times the credit for the Equipment Carried (EC) times the factor for an overweight apparatus.

After the items in 521 are factored to determine the points received for each reserve pumper, the reserve pumper with the largest points is selected for the Reserve Pumper Credit (RPC). The value for RPC is added to the value in Item 512 determined above. Next, the best equipped in-service pumper is subtracted from the in-service and reserve total. The difference is then divided by the total the possible points (654 or 554) times the Needed Engine Companies (NE). Finally, this quotient is multiplied by the 1 point available for the "Credit for Reserve Pumpers (CRP)".

These points calculated for Lauderdale By The Sea resulted in the following:

**CRP = 0.50 points**

### **Item 530 – Credit for Pump Capacity**

The next item reviewed is Item 532 "Credit for Pumper Capacity (CPC)". The total pump capacity available should be sufficient for the Basic Fire Flow of 1750 gpm in Lauderdale By The Sea. The maximum needed pump capacity credited is the Basic Fire Flow of the community. The pump capacity is obtained by test at the rated pump pressure. Credit is limited to 80 percent of rated capacity if no test data is available within two years of the survey date. Less than 80 percent may be credited if other mechanical features of the apparatus indicate a generally poor mechanical condition.

The existing pump capacity (EP) represents the capacity of in-service pumpers, pumper-ladder, and pumper-service trucks that were credited in Item 513.

The reserve pump capacity (RP) is that capacity of reserve pumpers, reserve pumper-ladder, and pumper-service trucks that were credited in Item 523. One-half the capacity of permanently-mounted pumps capable of delivering at least 50 gpm at 150 psi on other apparatus, reserve pumpers and reserve pumper-ladder and reserve pumper-service trucks not credited in Items 513 or 523 is credited in this item. This capacity is expressed as "OP".

Automatic Aid pumper capacity is that capacity of pumpers credited as Automatic Aid in Item 513. The capacity credited does not exceed the percent determined by the value of the Automatic Aid plan determined in Item 512.D multiplied by the creditable pump capacity for each Automatic Aid pumper. This capacity is expressed as AAP.

The sum of the capacities determined for EP, RP, OP, and AAP above is 4125 gpm. The FSRS limits the total capacity to the Basic Fire Flow of 1750 gpm. Next, this capacity is divided by the Basic Fire Flow. Finally, this factor is multiplied by the 5 points available for the "Credit for Pumper Capacity (CPC)". The points calculated for Lauderdale By The Sea for this item were as follows:

**CPC = 5.00 points**

#### **Item 549 – Credit for Ladder Service**

ISO establishes a "Credit for Ladder Service (CLS)" (FSRS Item 549). This item reviews the number of response areas within the city with 5 buildings that are 3 or more stories or 35 feet or more in height, or with 5 buildings that have a Needed Fire Flow greater than 3500 gpm, or any combination of this criteria. The height of all buildings in the city, including those protected by automatic sprinklers, is considered when determining the number of needed ladder companies. When no individual response area alone needs a ladder company, at least one ladder company is needed if buildings in the city meet the above criteria.

Ladders, tools and equipment normally carried on ladder trucks are needed not only for ladder operations but also for forcible entry, ventilation, salvage, overhaul, lighting and utility control. When long ladders are not needed in a community due to low height of buildings, the other support services tools and equipment are still needed. The number and type of apparatus is dependent upon the height of buildings, needed fire flow and response distance.

Response areas not needing a ladder company should have a service company. A service company is an apparatus with some or all of the equipment identified in Table 544.A (see the following pages).

The number of ladder or service companies, the height of the aerial ladder, aerial ladder testing and the equipment carried on the in-service ladder trucks and service trucks is compared with the number of needed ladder trucks and service trucks and an FSRS equipment list (Table 544 A, B, and C). Ladder trucks must meet the general criteria of NFPA 1901, *Standard for Automotive Fire Apparatus* to be recognized.

The number of needed ladder-service trucks is dependent upon the number of buildings 3 stories or 35 feet or more in height, buildings with a Needed Fire Flow greater than 3500 gpm, the response distance to built-upon areas, the method of operation and the response outside the city.

For maximum credit in the Schedule, 1 ladder company is needed in your district. This is calculated as follows:

The greater of:

- a) 1 ladder company due to the number of buildings over 3500 gpm or 3 stories in height or the method of operation.

Plus

- b) 0 additional ladder companies because 10% or less of the responses outside of the district result in a reduction of the ladder companies left in the district to 50% or less of the normal strength level.

We have recognized 1 ladder company.

For maximum credit in the Schedule, a ladder or service company should respond on first alarms to all reported fires in buildings. It was determined the ladder or service company response is to 100% of first alarm fires in buildings.

For maximum credit in the Schedule, 0 service companies are needed in your district. This need is calculated as follows:

0 service companies due to the lack of 5 or more buildings in response areas with a needed fire flow of over 3,500 gpm or 3 stories in height; or due to the method of operation.

We have recognized 0 service companies.

Tests and sample forms for recording tests for aerial ladder and elevating platforms are described in NFPA 1911, *Standard for the Inspection, Maintenance, Testing and Retirement of In-service Automotive Fire Apparatus*.

If a ladder company is needed, the available equipment items in Table 544.A are summed to determine the points received for a Service Company, and available equipment items in Table 544.B are summed to determine the additional equipment points available for a Ladder Company. Table 544.A and 544.B points are added together to determine the total possible points available out of a possible 784 points.

If a service company is needed, the available equipment items are summed in Table 544.A. If additional ground ladders are needed for the service company, the assigned points for each available ground ladder up to 4 (from Table 544.B) are added to the points determined in Table 544.A.

All ladder company equipment, available service company equipment, available engine-ladder company equipment and available engine-service company equipment are summed. This sum is then divided by the sum of 784 points multiplied by the Needed Ladder (NL) plus 334 points multiplied by the Needed Service (NS) companies plus any points assigned for any additional ladders from Table 544.B.

Next, this factor is multiplied by the appropriate factor (A) representing the percent of built-upon area of the city with first alarm response of a ladder, service, engine-ladder or engine-service company to fires in buildings. Finally, this product is multiplied by the 5 points available for the "Credit for Ladder Service (CLS)". The points calculated for Lauderdale By The Sea resulted in the following:

**CLS = 4.82 points**

### **Item 553 – Credit for Reserve Ladder and Service Trucks**

The next item reviewed is Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)". This item considers the adequacy of ladder and service apparatus when one (or more in larger communities) of these apparatus are out of service. The number of needed reserve ladder and service trucks is 1 for each 8 needed ladder and service companies that were determined to be needed in Item 540, or any fraction thereof. When 8 or less ladder and service companies are needed, and 1 or more ladder companies are needed, the reserve truck should be a ladder truck. When the number of needed reserve ladder and service trucks exceeds the number of needed reserve ladder trucks, the difference is considered as needed reserve service trucks.

The number of in-service ladder and service trucks considered out of service is determined by the number of needed reserve ladder and service trucks. The in-service ladder and service trucks credited in Item 549 having the largest number of points is what is considered as out of service.

The equipment on credited reserve ladder and service trucks shall be reviewed by application of Tables 544.A, 544.B and 544.C.

The number of reserve ladder trucks credited in this item shall not exceed the number of needed reserve ladder and service trucks. If only one reserve ladder is needed, and if more than one reserve ladder or service truck is provided in the city, only the best equipped reserve ladder or service truck will be credited.

All ladder company equipment, available service company equipment, available engine-ladder company equipment and available engine-service company equipment are summed.

After the points for all reserve ladder and service equipment is determined, the reserve ladder service truck with the largest points is selected. This value is added to the value of all in-service ladder and service company equipment determined in Item 549. Next, the best equipped in-service ladder or service truck is subtracted from the in-service and reserve total. The difference is then divided by the total possible points for a ladder truck (784) times the Needed Ladder (NL) plus the total possible points (334) times the Needed Service (NS) plus any assigned points for any additional ladders needed from Table 544.B. Finally, this quotient is multiplied by the 1 point available for the "Credit for Reserve Ladder and Service Trucks (CRLS)".

The credit for Reserve Ladder and Service Trucks was calculated for Lauderdale By The Sea as follows:

**CRLS = 0.71 points**

#### **Item 561 – Credit for Distribution**

Next, Item 561 "Credit for Distribution (CD)" is reviewed. This Item examines the number and adequacy of existing engine and ladder-service companies to cover built-upon areas of the city. The built-upon area of the city should have a first-due engine company within 1½ miles and a ladder-service company within 2½ miles.

To determine the Credit for Distribution, we begin by selecting certain values that have already been determined in the evaluation process. Existing Engine Company (EC) points and the Existing Engine Companies (EE) determined in Item 513 are considered along with Ladder Company Equipment (LCE) points, Service Company Equipment (SCE) points, Engine-Ladder Company Equipment (ELCE) points, and Engine-Service Company Equipment (ESCE) points determined in Item 549.

A company distribution study is conducted using a base map of the city drawn to scale. All named and numbered streets are depicted as well as all fire hydrant locations. The in-service engine company and in-service ladder and service company locations are plotted on the map. Using the prevailing map scale a 1½ mile polygon is drawn around each in-service engine company location and a 2½ mile polygon is drawn around each in-service ladder and service company location. Since the fire hydrant locations are indicative of growth and development they are used as a surrogate to quantify built-upon areas. All fire hydrants located within 1½ mile polygons are counted and summed.

This number is divided by the total number of fire hydrants in the city and multiplied by 100 to determine the percent of built-upon area within 1½ miles of an existing engine company. Similarly, all fire hydrants located within 2½ mile polygons are counted and summed. This number is divided by the total number of fire hydrants in the city and multiplied by 100 to determine the percent of built-upon area within 2½ miles of existing ladder and service companies.

The points calculated for Credit for Distribution for Lauderdale By The Sea resulted in the following:

**CD = 3.55 points**

### **Item 571 – Credit for Company Personnel**

Item 571 “Credit for Company Personnel (CCP)” reviews the average number of existing fire fighter and company officer personnel available to respond to reported “first alarm structure fires” in the city.

For on-duty strength, the total number of members on duty with companies is taken as the yearly average considering vacations, sick leave, holidays, “Kelley” days and other absences. When your fire department operates under a “minimum staffing” policy and sufficient funds are allocated in the fire department budget to hire back personnel from the off-shift to maintain the minimum staffing, ISO will use the minimum staffing in lieu of figuring an average.

Members on apparatus not credited under Items 513 and 549 that regularly respond to reported first alarms to aid engine, ladder and service companies are included in this item as increasing the total company strength.

Personnel staffing ambulances or other units serving the general public are credited if they participate in fire-fighting operations, the number depending upon the extent to which they are available and are used for response to first alarms of fire.

Call and volunteer members (VM) are credited on the basis of the average number staffing apparatus on first alarms. Off-shift paid members responding on first alarms are considered on the same basis as call and volunteer members. For personnel not normally at the fire station, the value of responding members is divided by 3 to reflect the time needed to assemble at the fire scene and the fractured ability to act as a team due to the various arrival times at the fire location when compared to the personnel on duty at the fire station during the receipt of an alarm. While Public Safety Officers do not represent the ability to respond from a single location as a team, they are positioned in emergency vehicles within the jurisdiction boundaries. In recognition of this increased response capability the value of responding members is divided by 2.

Call and volunteer members sleeping at fire stations are considered as on-duty members for the proportional time that they at the fire station.

The average number of personnel responding with those companies credited as Automatic Aid under Items 513 and 549 are considered for either on-duty or volunteer personnel as is appropriate. The actual number is calculated as the average number of personnel responding multiplied by the value of AA Plan determined in Item 512.D.

The maximum credit for any response of on-duty and call members are 12 fire fighters, including company officers, for each existing engine and ladder company and 6 for each existing service company.

The FSRs recognizes an average of 2.48 on-duty personnel and 15.00 volunteers respond on first alarm to structure fires.

The points calculated for Credit for Personnel for Lauderdale By The Sea resulted in the following:

**CCP = 6.23 points**

### **Item 581 – Credit for Training**

The final item reviewed in the fire department section is Item 580 “Credit for Training (CT)”. This item evaluates training facilities and aids and the use made of them by the fire suppression force; company training at fire stations; classes for officers; driver and operator training; new driver and operator training; hazardous materials training; recruit training; the pre-fire planning inspection program; and the training and inspection records.

A maximum of 35% of the training evaluation is attributed to facilities, aids and use, 50% is attributed to specialized training and the final 15% is available for the pre-fire planning inspection program.

The following pages outline the points scored by Item for Training.

<b>Item 580.A.1 "Facilities and Aids "</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<p><b>Drill Tower*</b> For maximum credit, a 4 story drill tower should be used.</p> <p>0 points were credited as there is no drill tower available and used by the fire department.</p>	0.00	8
<p><b>Fire Building (including smoke room)*</b> For maximum credit, there should be a fire resistive smoke room that is separated from the drill tower so that training may be conducted in the tower and in the smoke room.</p> <p>A fire building is not available or used for training.</p>	0.00	8
<p><b>Combustible Liquids Pit*</b> For maximum credit, a 1500 square foot combustible liquid pit or equivalent video instructing effective fire suppression of Class B fires should be used.</p> <p>Credit for a 1500 square foot combustible liquids pit was provided representing the actual size of the pit or that there is a video instructing effective fire suppression of Class B fires available for use to train the fire department personnel.</p>	5.00	5
<p><b>Library and Training Manuals</b> For maximum credit, a complete library of training manuals should be available in the department for the membership. The library and manuals should include: NFPA "Fire Protection Handbook", "The Fire Chief's Handbook" published by Fire Engineering, "Managing Fire and Rescue Services" published by ICMA, Training manuals published by IFSTA or equivalent, and the following NFPA Standards, 472, 1001, 1002, 1021, 1201, 1401, 1403, 1410, 1451, and 1620.</p>	2.00	2
<p><b>Multi-Media Training Aids including Pump and Hydrant Cutaways</b> A slide/overhead projector and compatible multi-media aids are available. A movie/VCR type projector and compatible multi-media aids are available. A pump cutaway is available in the department for the membership. A hydrant cutaway is available in the department for the membership.</p>	2.00	2

Item 580.A.1 "Facilities and Aids " (continued)	Earned Credit	Credit Available
<p><b>Training Area*</b> For maximum credit, a fire department training area of at least 2.0 acres in size should be available for single and multi-company drills.</p> <p>A training area of 0 acres is provided. Training is conducted on streets or other areas.</p>	10.00	10
<b>Review of Facilities and Aids (FA) total:</b>	<b>14.00</b>	<b>35</b>
<b>Item 580.A.2 "Use "</b>		
<p><b>a. Half-day (3 hours) drills, 8 per year (0.05 each)</b> For maximum credit, all members should participate in 8 half-day, single company drills.</p> <p>There were an average of 8.00 single company half-day drills.</p>	0.40	0.40
<p><b>b. Half-day (3 hours) multiple-company drills, 4 per year (0.10 each):</b> For maximum credit, all members should participate in 4 half-day multiple company drills.</p> <p>There were an average of 4.00 multiple company drills.</p>	0.40	0.40
<p><b>c. Night drills (3 hours), 2 per year (0.10 each):</b> For maximum credit, all members should participate in two 3-hour night drills per year.</p> <p>There was an average of 1.00 night drill.</p>	0.10	0.20
<b>Factor for "Use" subtotal -</b>	<b>0.90</b>	
<b>Average percentage participating in drills -</b>	<b>100%</b>	
<b>Factor for Use (FU):</b>	<b>0.90</b>	<b>1.0</b>
<b>Review of Facilities and Aids (FA) total:</b>	<b>14.00</b>	<b>35</b>
<b>"Facilities, Aids and Use" subtotal -</b>	<b>12.60</b>	
<b>Deduction for incomplete or missing records -</b>	<b>-0.00</b>	

**Note:** A single company drill may receive credit under a and c; A multiple-company drill may receive credit under a, b, and c.

**\*Note:** If the Drill Tower, Fire Building, Combustible Liquids Pit or Training Area do not achieve at least 10 points, Credit will be given for the use of buildings, streets and open areas (other than formal training grounds), but not both.

After the items under Item "Facilities and Aids" are summed and the factor for "Use" is established, the credit for "Facilities, Aids and Use" is determined by multiplying the total possible points (35 points) by the factor for "Use" (up to 1.0) and subtracting any deductions for record keeping to determine the credit.

The points calculated for "Facilities, Aids and Use" for Lauderdale By The Sea resulted in the following: **Facilities, Aids and Use = 12.60 points**

Specialized Training	Earned Credit	Credit Available
<p><b>B. Company Training</b></p> <p>For maximum credit, each firefighter should receive 20 hours per month in structure fire related subjects as outlined in NFPA 1001.</p> <p>There was an average of 5.10 hours per month of company training received by company members and participation was 100% of those eligible to participate.</p> <p>0.00 points will be deducted for missing or incomplete records.</p>	6.38	25
<p><b>C. Classes for Officers</b></p> <p>For maximum credit, each officer should receive 2 days of leadership, management, supervisory, and incident management system training per year as outlined in NFPA 1021.</p> <p>There was an average of 2.00 days devoted to officer classes and participation is 100% of those eligible to participate.</p> <p>0.00 points will be deducted for missing or incomplete records.</p>	15.00	15
<p><b>D. Driver and Operator Training</b></p> <p>For maximum credit, each driver and operator should receive 4 half-day sessions of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.</p> <p>There were 4.00 half-day sessions received per year by drivers and operators and participation was 100% of those eligible to participate.</p> <p>0.00 points will be deducted for missing or incomplete records.</p>	2.00	2
<p><b>E. New Driver and Operator Training</b></p> <p>For maximum credit, each new driver and operator should receive 40 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.</p> <p>There were 40.00 hours received per year by new drivers and operators and participation was 100% of those eligible to participate.</p> <p>0.00 points will be deducted for missing or incomplete records.</p>	2.00	2
<p><b>F. Training on Hazardous Materials</b></p> <p>For maximum credit, each firefighter should receive ½ day of training for incidents involving hazardous materials in accordance with NFPA 472.</p> <p>There was 1.00 day of training received per year and participation was 100% of those eligible to participate.</p> <p>0.00 points will be deducted for missing or incomplete records.</p>	1.00	1

<b>Specialized Training (continued)</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<p><b>G. Recruit Training</b></p> <p>For maximum credit, each firefighter should receive 240 hours of structure fire related training in accordance with NFPA 1001 within the first year of employment or tenure.</p> <p>There were 218.94 hours received per year and participation was 100% of those eligible to participate.</p> <p>0.00 points will be deducted for missing or incomplete records.</p>	<b>4.56</b>	<b>5</b>
<p><b>H. Pre-Fire Planning Inspections</b></p> <p>For maximum credit, pre-fire planning inspections of each commercial, industrial, institutional, and other similar type building (all buildings except 1-4 family dwellings) should be made twice per year by company members. Records of inspections should include up-to date notes and sketches.</p> <p>There are 71.00% of the buildings inspected at a yearly frequency of 1.00. Participation is 100.00%.</p> <p>0.00 points will be deducted for missing or incomplete records.</p>	<b>8.52</b>	<b>15</b>

To determine your credit for Training, the points credited in Item 580.A through 580.H are summed.

For maximum credit, records should be kept of all training. NFPA 1401 outlines the appropriate manner in which to accomplish this. A deduction of up to 20 points (20% for each Item) is made for a lack of records. A deduction of 10% is made for incomplete records and 20% for no records for each sub item.

A total of **0.00** points is deducted to reflect a deficiency of record keeping for Lauderdale By The Sea.

Finally, this sum is divided by 100 and then multiplied by the 9 points available for the "Credit for Training (CT)". These points calculated for Lauderdale By The Sea resulted in the following:

**CT = 4.68 points**

The final step in determining the Credit for Fire Department is to add up the following eight components:

Item	Earned Credit	Credit Available
513. Credit for Engine Companies (CEC)	10.00	10
523. Credit for Reserve Pumpers (CRP)	0.50	1
532. Credit for Pumper Capacity (CPC)	5.00	5
549. Credit for Ladder Service (CLS)	4.82	5
553. Credit for Reserve Ladder and Service Trucks (CRLS)	0.71	1
561. Credit for Distribution (CD)	3.55	4
571. Credit for Company Personnel (CCP)	6.23	15
581. Credit for Training (CT)	4.68	9
<b>Total Credit</b>	<b>35.49</b>	<b>50</b>

If the score Lauderdale By The Sea achieved for the fire department was translated into a 100-point scale instead of the 50-points actually used, the relative Fire Suppression Rating Schedule classification for this section of the review would be a (relative) **Class 3**.

### **Water Supply**

Forty percent of a community's overall score is based on the adequacy of the water supply system. The ISO field representative evaluated:

- representative building locations in the city to determine the theoretical amount of water necessary for fire suppression purposes (needed fire flow up to 3,500 gpm)
- fire hydrants: size, type and installation to determine the capacity of the fire hydrants
- hydrants: inspection and condition to review the fire hydrant inspection frequency, the completeness of the inspections and the condition of the hydrants

### **Item 616 – Credit for Supply System**

The first item reviewed was Item 616 "Credit for Supply System (CSS)". This item reviews the rate of flow that can be credited at each of the needed fire flow tests locations considering the supply works capacity, the main capacity and the hydrant distribution. The lowest flow rate of these items is credited for each representative location reviewed. A water system capable of delivering 250 gpm or more for a period of two hours plus consumption at the maximum daily rate at the fire location is considered minimum in the ISO review.

To determine the score for Item 616 "Credit for Supply System", three sub items (Item 612 "Supply Works Capacity", Item 613 "Main Capacity" and Item 614 "Hydrant Distribution") need to be evaluated.

We calculate the supply works capacity for each representative needed fire flow test location. In doing this, ISO considers a variety of water supply sources. These would include public water supplies, emergency supplies (usually accessed from neighboring water systems), suction supplies (usually evidenced by dry hydrant installations near a river, lake or other body of water), and a supply developed by a fire department using large diameter hose or vehicles to shuttle water from a source of supply to a fire site. The result is expressed in gallons per minute (gpm).

The normal ability of the distribution system to deliver Needed Fire Flows (NFF) at the selected building locations is reviewed. The results of a flow test at a representative test location will indicate the ability of the water mains (or fire department in the case of fire department supplies) to carry water to that location.

The hydrant distribution is reviewed within 1,000 feet of representative test locations measured as hose can be laid by apparatus. Credit is allowed up to 1,000 gpm from each hydrant within 300 feet of the location, 670 gpm from hydrants within 301 to 600 feet of the location and 250 gpm from hydrants within 601 to 1,000 feet of the location. The normal distribution of hydrants in the vicinity of test locations considered in Items 612 and 613 are evaluated. These hydrant distribution allowances are based upon a standard fire hydrant with a pumper outlet conforming to the American Water Works Association (AWWA) Standard C-502 or C-503. In addition, they are based upon a standard complement of 1,200 feet of 2½ inch fire hose. If a hose diameter greater than 2½ inch is carried by all in-service pumpers, the hydrant distribution credit may be greater than that stated above due to the reduced friction loss in the larger diameter hose.

Where there are 2 or more systems or services distributing water at the same location, credit is given on the basis of the joint protection provided by all systems and services available.

- A. Sub-standard type hydrants with at least one fire department outlet are considered if they are capable of delivering at least 250 gpm.
- B. A cistern or other suction point must be capable of supplying 250 gpm for at least 2 hours to be recognized.
- C. The maximum credit for a hydrant may be limited by A or B above and is limited by the number and size of outlets as follows:

<b>MAXIMUM CREDIT</b>	
At least one pumper outlet	1,000 gpm
Two or more hose outlets, no pumper outlet	750 gpm
One hose outlet only	500 gpm

For maximum credit in the FSRS, the needed fire flows should be available at each location in the district. Needed fire flows of 2,500 gpm or less should be available for 2 hours; and needed fire flows of 3,000 and 3,500 gpm should be obtainable for 3 hours.

A variety of buildings were used as representative building locations in the city to determine the theoretical amount of water necessary for fire suppression purposes (needed fire flow).

The points calculated for Lauderdale By The Sea resulted in the following:

**CSS = 35.00**

### Item 621 – Credit for Hydrants

The second item reviewed is Item 621 “Credit for Hydrants (CH)”. This item reviews the number of fire hydrants of each type compared with the total number of hydrants.

For maximum credit in the FSRS, all hydrants should have a pumper outlet, 6 inch or larger branch connection, uniform size operating nut and should operate in a uniform direction in accordance with AWWA C-502 *Standard for Dry-Barrel Fire Hydrants* or AWWA C-503 *Standard for Wet-Barrel Fire Hydrants*.

For maximum credit, all suction supply points should be equipped with a dry hydrant with a 6 inch or larger pipe and fittings, a minimum number of 90 degree elbows (preferably no more than two), and suction screen placement so that the dry hydrant will deliver the design capacity (usually 1,000 gpm) as specified in NFPA 1142, *Standard on Water Supplies for Suburban and Rural Fire Fighting*.

There are a total of 121 hydrants in the city.

620. Hydrants, - Size, Type and Installation	Earned Credit	Credit Available
<b>A. With a 6 -inch or larger branch and a pumper outlet with or without 2½ -inch outlets</b> There are 121 hydrants that have a 6 -inch or larger branch and a pumper outlet.	100.00	100
<b>B. With a 6 -inch or larger branch and no pumper outlet but two or more 2½ -inch outlets, or with a small foot valve, or with a small barrel</b> There are 0 hydrants that have a 6 -inch or larger branch but no pumper outlet, or have a small foot valve or with a small barrel.	0.00	75
<b>C. With only a 2½ -inch outlet</b> There are 0 hydrants with only a 2½ -inch outlet.	0.00	25
<b>D. With less than a 6 -inch branch</b> There are 0 hydrants with less than a 6 -inch branch connection.	0.00	25
<b>E. Flush Type</b> There are 0 hydrants that are of the flush type.	0.00	25
<b>F. Cistern or suction point</b> There are 0 locations that are considered a cistern and/or a suction point.	0.00	25
<b>Total</b>	<b>100.00</b>	<b>100</b>

Note 1: 2 points are deducted for each 10 percent of the hydrants that are not operating in a uniform direction of the majority, or with an operating nut different from the majority.

Of the 121 hydrants that were reviewed, 0% did not operate in the direction of the majority and 0% had a different size operating nut.

Note 2: 10 points are deducted if more than one type hose thread is used for pumper or hose outlets. Of the 121 hydrants that were reviewed, none had a different hose thread than the majority. There were no points deducted for this item.

To determine your "Credit for Hydrants", the points credited in Item 620.A through 680.F are summed. A deduction of 2 points is made for each 10% of hydrants not operating in a uniform direction of the majority, or with an operating nut different from the majority. A deduction of 10 points is also made if more than one thread is used for pumper or hose outlets. The sum is divided by 100 and then multiplied by the 2 points available for the "Credit for Hydrants (CH)". The points calculated for Lauderdale By The Sea resulted in the following:

**CH = 2.00**

**Item 630 – Credit for Inspection and Condition**

The third item reviewed is Item 630 "Credit for Inspection and Condition (CIC)". This item reviews the fire hydrant inspection frequency, the completeness of the inspections and the condition of hydrants. Inspection and condition of hydrants should be in accordance with AWWA M-17, *Installation, Field Testing and Maintenance of Fire Hydrants*.

**A. Inspection (HI):**

The frequency of inspection is the average time interval between the 3 most recent inspections.

<b>Frequency of Inspections</b>	<b>Points</b>
½ year	100
1 year	80
2 years	65
3 years	55
4 years	45
5 years or more	40

Note 1: The points for inspection frequency are reduced by 10 points if the inspections are incomplete or does not include a flushing program. An additional reduction of 10 points are made if hydrants are not subjected to full system pressure during inspections. If the inspection of cisterns or suction points does not include actual drafting with a pumper, or back-flushing for dry hydrants, 40 points are deducted.

**B. Condition (HF):**

A factor (HF) is determined from the following list of conditions according to the actual condition of hydrants examined compared with the total number examined during the survey:

<b>Condition</b>	<b>Factor</b>
Standard (no leaks, opens easily, conspicuous, well located for use by pumper)	1.0
Usable (with some defects and/or impediments to use)	0.5
Not Usable	0.0

For maximum credit in the Schedule, all hydrants should be inspected twice a year. The inspection should include operation of the fire hydrant, a test for leaks (using domestic pressure), and a flushing of the hydrant. Records should be kept of inspections.

**Water System: City of Pompano Beach**

<b>Item 630.A "Inspection (HI):"</b>		<b>Time Interval</b>
Most recent inspection was Jul 01, 2010		
1 <sup>st</sup> prior inspection was Jan 01, 2010		<b>0.5 year</b>
2 <sup>nd</sup> prior inspection was Jul 01, 2009		<b>0.5 year</b>
<b>Review of Inspection (HI):</b>	<b>Earned Credit</b>	<b>Credit Available</b>
	<b>100</b>	<b>100</b>

Note: The inspection dates shown are for the water system which includes the largest concentration of hydrants in the graded area; however, the earned credit reflects the frequency of inspection for all applicable water systems.

For maximum credit in the Schedule, all hydrants should be conspicuous, well located for use by a pumper and in good condition. There were 14 hydrants examined in this FRS item.

<b>Item 630.B "Condition (HF):"</b>		<b>Maximum Factor</b>
<b>Standard:</b> There were 14 hydrants considered in standard condition.		<b>1.0</b>
<b>Usable:</b> There were 0 hydrants considered in usable condition.		<b>0.5</b>
<b>Not Usable:</b> There were 0 hydrants considered not usable.		<b>0.0</b>
<b>Review of Condition (HF):</b>	<b>Earned Credit</b>	<b>Credit Available</b>
	<b>1.00</b>	<b>1.0</b>

The points calculated for the inspection and condition of hydrants for Lauderdale By The Sea resulted in the following:

**CIC = 3.00**

The final step in determining the credit for Water Supply is to add up the following three components:

Item	Earned Credit	Credit Available
616. Credit for Supply System (CSS)	35.00	35
621. Credit for Hydrants (CH)	2.00	2
631. Credit for Inspection and Condition (CIC)	3.00	3
<b>Total Credit</b>	<b>40.00</b>	<b>40</b>

If the score Lauderdale By The Sea achieved for the water supply system was translated into a 100 point scale instead of the 40 points actually used, the relative Fire Suppression Rating Schedule classification for this section of the review would be a (relative) **Class 1**.

**Divergence**

Divergence considers a difference between the protection provided by the Fire Department and the Water Supply. This difference would prevent the better feature from being utilized to its fullest extent. Therefore, an adjustment is made to reflect any difference between these two features. Because of the difference in total weights assigned to the two features, the total for the Fire Department, which has the higher total weight, is adjusted to make the comparison reflect the relative adequacies of the two features.

The expression  $\frac{[(CWS) - 0.8(CFD)]}{10}$  in the following formula is the Divergence calculation:

$$PPC = \frac{[(CFA + CFD + CWS) - 0.5 \{ (CWS) - 0.8 (CFD) \}]}{10}$$

$$PPC = \frac{[(10.0 + 35.49 + 40.00) - 0.5 \{ (40.00) - 0.8 (35.49) \}]}{10}$$

**Summary of Public Protection Classification Review**

**Completed by ISO on Feb 04, 2011**

**for**

**Lauderdale By The Sea**

<b>FSRS Item</b>	<b>Earned Credit</b>	<b>Credit Available</b>
<b>Receiving and Handling Fire Alarms</b>		
414. Credit for Telephone Service	2.00	2
422. Credit for Operators	3.00	3
432. Credit for Dispatch Circuits	5.00	5
<b>440. Credit for Receiving and Handling Fire Alarms</b>	<b>10.00</b>	<b>10</b>
<b>Fire Department</b>		
513. Credit for Engine Companies	10.00	10
523. Credit for Reserve Pumpers	0.50	1
532. Credit for Pumper Capacity	5.00	5
549. Credit for Ladder Service	4.82	5
553. Credit for Reserve Ladder and Service Trucks	0.71	1
561. Credit for Distribution	3.55	4
571. Credit for Company Personnel	6.23	15
580. Credit for Training	4.68	9
<b>590. Credit for Fire Department</b>	<b>35.49</b>	<b>50</b>
<b>Water Supply</b>		
616. Credit for Supply System	35.00	35
621. Credit for Hydrants	2.00	2
631. Credit for Inspection and Condition	3.00	3
<b>640. Credit for Water Supply</b>	<b>40.00</b>	<b>40</b>
<b>Divergence</b>		
700: Divergence	-5.80	--
<b>Total Credit</b>	<b>79.69</b>	<b>100.00</b>

**Community Classification = 3**

If the individual scores Lauderdale By The Sea achieved for receiving and handling fire alarms; fire department; and water supply were translated into a 100 point scale instead of the (10, 50 and 40) points actually used, the relative Fire Suppression Rating Schedule classification for each of these sections would be:

Receiving and Handling Fire Alarms: a (relative) **Class 1**

Fire Department: a (relative) **Class 3**

Water Supply: a (relative) **Class 1**

INSURANCE SERVICES OFFICE, INC.  
**HYDRANT FLOW DATA SUMMARY**

City Lauderdale By The Sea

County Broward

State Florida

Witnessed by: Insurance Services Office, Inc.

Date: February 3, 2011

TEST NO.	TYPE DIST.*	TEST LOCATION	SERVICE	FLOW - GPM $Q=(29.83(C(d^2)p^{0.5}))$			PRESSURE PSI		FLOW -AT 20 PSI		REMARKS***	
				INDIVIDUAL HYDRANTS			TOTAL	STATIC	RESID.	NEEDED **		AVAIL.
1	Comm	Ifo 4300 El Mar	City of FT. Lauderdale, #1	1190	0	0	1190	76	62	2500	2500	
2	Comm	Commercial & Bouganvilla	City of FT. Lauderdale, #1	1330	0	0	1330	71	62	1750	3400	
3	Comm	Ocean & Palm	City of FT. Lauderdale, #1	1290	0	0	1290	76	71	1750	4800	
4	Res	Seagrape & Oceanic	City of FT. Lauderdale, #1	1340	0	0	1340	80	72	1000	4000	
5	Res	E. Tarramar & Spanish River	City of Pompano Beach, #2	810	0	0	810	79	40	1000	1000	
6	Comm	Front southside of 2001 S. Ocean	City of Pompano Beach, #2	1150	0	0	1150	76	60	2000	2300	
7	Comm	Northside of 4433 Bouganvilla	City of FT. Lauderdale, #1	1340	0	0	1340	71	62	2250	3400	

THE ABOVE LISTED NEEDED FIRE FLOWS ARE FOR PROPERTY INSURANCE PREMIUM CALCULATIONS ONLY AND ARE *NOT* INTENDED TO PREDICT THE MAXIMUM AMOUNT OF WATER REQUIRED FOR A LARGE SCALE FIRE CONDITION.

THE AVAILABLE FLOWS ONLY INDICATE THE CONDITIONS THAT EXISTED AT THE TIME AND AT THE LOCATION WHERE TESTS WERE WITNESSED.

\*Comm = Commercial; Res = Residential.

\*\*Needed is the rate of flow for a specific duration for a full credit condition. Needed Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Suppression Rating Schedule.

\*\*\* (A)-Limited by available hydrants to gpm shown. Available facilities limit flow to gpm shown plus consumption for the needed duration of (B)-2 hours, (C)-3 hours or (D)-4 hours.