### THE CASE FOR THIRD PARTY FIRE PROTECTION REVIEW IN THE GCC

CONFERENCE ON FIRE SAFETY STRATEGIES

Shamim Rashid-Sumar, P.E., LEED<sup>®</sup> AP Rolf Jensen & Associates, Inc.

### INTRODUCTION

- For several years, Rolf Jensen & Associates, Inc., has conducted third party fire protection review for both private and government entities.
- We are currently approved as a third party agency for several jurisdictions including Saudi Aramco, Abu Dhabi Civil Defense, the District of Columbia, Macau SAR, and the Jebel Ali Free Zone Authority.

### OVERVIEW

The purpose of our presentation today is to discuss the third party fire protection review process. We'll do this by answering several pertinent questions.

- WHO USES THE THIRD PARTY PROCESS?
- WHAT IS THE ROLE OF INDUSTRY
   PROFESSIONALS?
- WHY USE THE THIRD PARTY PROCESS?
- WHEN DO YOU WANT TO GET THIRD PARTY REVIEWERS INVOLVED IN YOUR PROJECT?
- WHAT IS THE THIRD PARTY REVIEW PROCESS?
- WHAT ARE SOME EXAMPLES OF F.P. PITFALLS FOUND DURING THE TPR PROCESS?



### WHO USES THE THIRD PARTY FIRE PROTECTION REVIEW PROCESS?



- AUTHORITIES HAVING
   JURISDICTION
  - UAE
  - QATAR
  - OMAN
- END USERS
  - KSA

#### ROLE OF INDUSTRY PROFESSIONALS

#### • MANUFACTURERS

- RESPONSIBLE
   DESIGN
- INTEGRATORS AND
   INSTALLERS
  - RESPONSIBLE INSTALLATION
- SERVICE
   COMPANIES

#### • CONSULTANTS

- A/E CONSULTANTS
- SPECIALIST FIRE
   AND LIFE SAFETY
   CONSULTANTS
  - LICENSED
     PROFESSIONAL OR
     CHARTERED
     ENGINEERS
  - CANON OF ETHICS

### ROLE OF INDUSTRY PROFESSIONALS



### MANY DISCIPLINES USE THIRD PARTY REVIEWERS/ INSPECTORS

- Mechanical
- Electrical
- Plumbing
- Building
- Elevators
- Fire protection and life safety systems



### WHY USE THE THIRD PARTY FIRE PROTECTION PROCESS?



# MITIGATE THE IMPACT OF INCIDENTS

### WHY USE THE THIRD PARTY FIRE PROTECTION PROCESS?

- Verify installation of specified building design / fire strategy
- Verify <u>equivalence</u> of installation to specified building design / fire strategy
- Value to the project
  - Timeliness
  - Consistency
  - Thoroughness
- Avoid Fire Protection Pitfalls

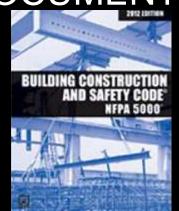


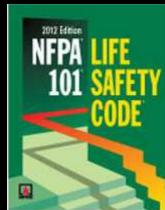
### WHEN SHOULD THIRD PARTY REVIEWERS GET INVOLVED IN YOUR PROJECT?

 Prior to start of construction, designate an independent authority or consultant to provide design review and perform inspections



REVIEW OR ESTABLISH PROJECT BASIS
 OF DESIGN AND BUILDING DESIGN
 DOCUMENTS









#### DOCUMENTING THE STRATEGY



FIRE AND LIFE SAFETY REPORT

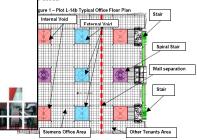
SIEMENS HEADQUARTERS MASDAR CITY PLOT L-14b ABU DHABI, UAE ETY REPORT I53281 - Page 1 ARTERS MASDAR CITY PLOT L-14b 4 May 2011

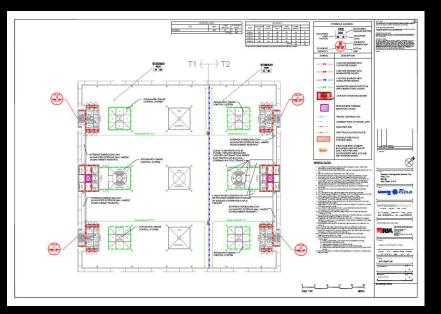
#### INTRODUCTION

ribes the fire and life safety features for the design of the res Masdar City Plot L-14b which is located in Masdar City The fire and life safety related features and requirements report are based on the applicable fire protection and life and regulations in addition to the Abu Dhabi Civil Defense consistent with internationally recognized fire and life safety

#### BUILDING DESCRIPTION

unters Suliding Piot L-14b is one of the series of plots of helphorbodo (MIN) buildings. The high-rise building is an sting of 5 stories including ground and roof levels with a the lowest fire department access (ground level) to the ocated on a sloped grade where one side of the building is on the ground level (+0.00 m) while the other side is open on m). The building is split into two separate areas on level 2 or one area will be dedicated to Siemens Offices and the scensed from both the Siemens offices and the multiple iris Istain located within an atrium space connect level 1 to al square shaped light well open to sky connect level 1 and the root level 1 and the root level 1 and the root level 3 and in a dividues an open termore with level 1 includes an open termore with level 1 includes an open termore with level 1 and the root level 3 and areas with level 1 and the root level 3 and arease with level 1 and the root level 3 and servels and while level 1 includes an open termore with level 1 and the root level 3 and arease with level 1 and the root level 3 and arease with servel 1 and the root level 3 and arease with level 1 and the root level 3 and the root level 3 and arease with level 1 and the root level 3 and arease with level 1 and the root level 3 and arease with level 1 and the root level 3 and arease with level 1 and the root level 3 and the root level 3 and arease with level 1 and the root level 3 and ther area with level













- IMPLEMENTING THE STRATEGY
  - Review contractor submittals (if applicable)
  - Verify in the field that installation meets the project basis of design and building design documents
  - Document findings and present to building owner

#### OBTAINING APPROVAL

United Arab Emirates Ministry Of Interior General Directorate of G Dubai	ivil Defenc	درلة الأمارات العربية المتحة وزارة الناطية الإذارة المغلة للطاع المعلى / دبي	Uniced Ariso emiliates Ministry Of Interior Oeneral Effectionite of Si Disbai	Al Deress	بولة الإمارات قمريية امتسه وزارة الداخلية الإدارة المامة للنفاع المنتي / دبي	
	INITIAL APPROVAL			FINAL APPROVAL		
PPLICATION NUMBER:	PS-AAD-EEN-20-04-2011-8769		APPLICATION NUMBER:	P1-AAD-EEN-20-04-2011-8769		
ATE:	05 <sup>46</sup> April 2011		DATE	25 <sup>101</sup> April 2011		
OTAL BUILT-UP AREA:	23,000 Sq m		TOTAL BUILT-UP AREA:	23,000 Sq m		
			INITIAL APPROVALDATE:	8" APRR 2011		
APPLICANT'S UNDER	TAKING		APPLICANT'S UNDER			
			APPLICANT'S UNDER	ANING		
Being an authorized A	pplicant and Receiver of Dubai Civil I	Defence' Initial Approval for				
the above mentioned project, I hereby 1. Understate that I have read, understad and agree for all the Terms and Conditioned that Phale Agreements be revolved and Applicant is purisibable if the project details, plans, system proposals and supporting documents attached with the Applicant deviate from the DCD Requirements. 3. Agree to comply with and implement all the DCD Requirements. 4. Understand that Initial Approxal is not the Final Approxal and it is only a No Objection Certificate. 5. Understand that I have to take Final Approval before starting the construction.			Being an authorized Applicant and Resolver of Dubul Civil Defence <sup>+</sup> Final Approval for the above methomed project. Iteratory 1. Undertakes that I have read, understood and agree for all the Terms and Contentions for the Final Approval. 2. Agree to comply with and implement all the DCD Requirements and Comments. 3. Understand that I have to apply and seek DCD Inspection after the final completion of the building to acquire Building Completion Certificate. 4. Understand that Tiska to apply and seek DCD Inspection after the final completion of the building to acquire Building Completion Certificate. 4. Understand that Tiska Approval may be avoided and Appleant in punishable if the Building's Fire and Life Safety standards deviate from the DCD Requirements and DCD Comments.			
	s that Directorate General of Dubai Ci roval for this project based on the abo			that Directorate General of Dubai		
Directorate General of	Dubai Civil Defence has no objection	for the Applicant to	Approval for this project	t based on the above mentioned i	undertaking from the Applicant.	
Mobilization. However	unicipality formalities, Tender proceed , the Consultant shall obtain the Duba roject before commencing the constru	ai Civil Defence FINAL	proceed with Building Civil Defence FINAL B	Dubai Civil Defence has no object Construction. However, the Consu UILDING COMPLETION CERTIFI Jainess or any commercial activity	Itant shall obtain the Dubai CATE for this project before	
	Rec			_		
	- Det	2		(OB)		
Major Jamal Ibrahim						
	Director			Major Jamal Ibrahim		
	Preventive Safety Department			Director		
	Dubai Civil Defence			Preventive Safety Department		
<u>.</u>	and the second second			Dubai Civil Defence	110.1010.000	
PS-AAD-EEN-20-04-2011-	-8769	Page 5 of 5	PSAAD-EEN-20-04-2012-	2769	Fage a ora	
	43/63					



- CHECKLIST
  - APPLICABLE CODES
  - FIRE STRATEGY
  - IMPLEMENTATION
  - APPROVAL



X





#### • CHECKLIST

- APPLICABLE CODES
- FIRE STRATEGY
- IMPLEMENTATION
- APPROVAL







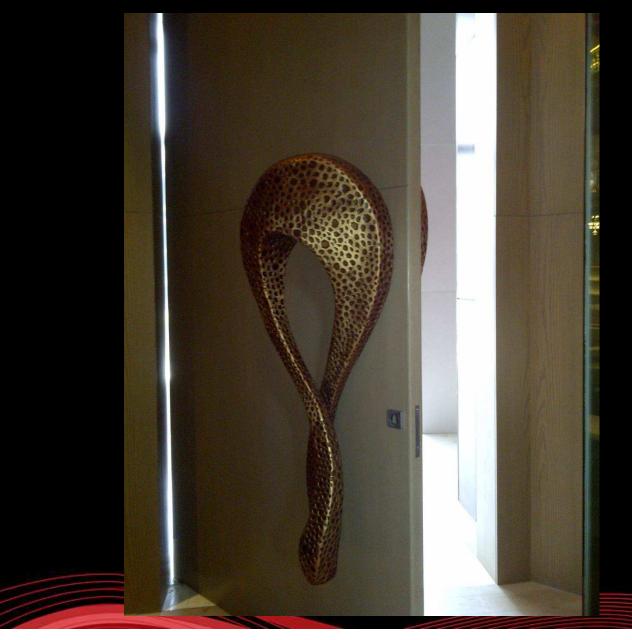




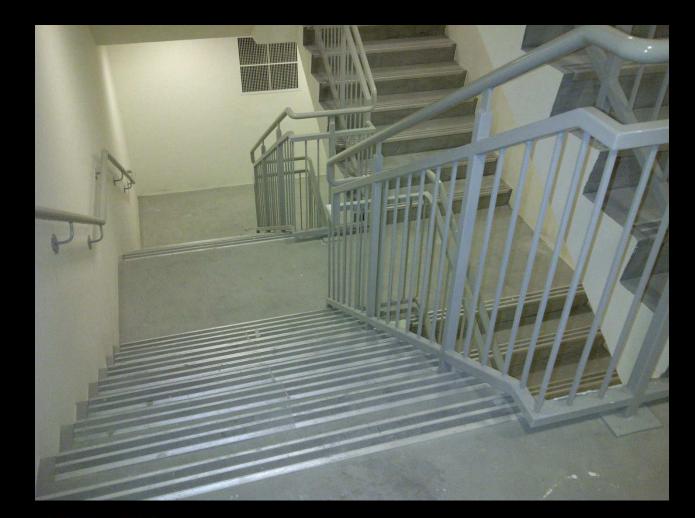










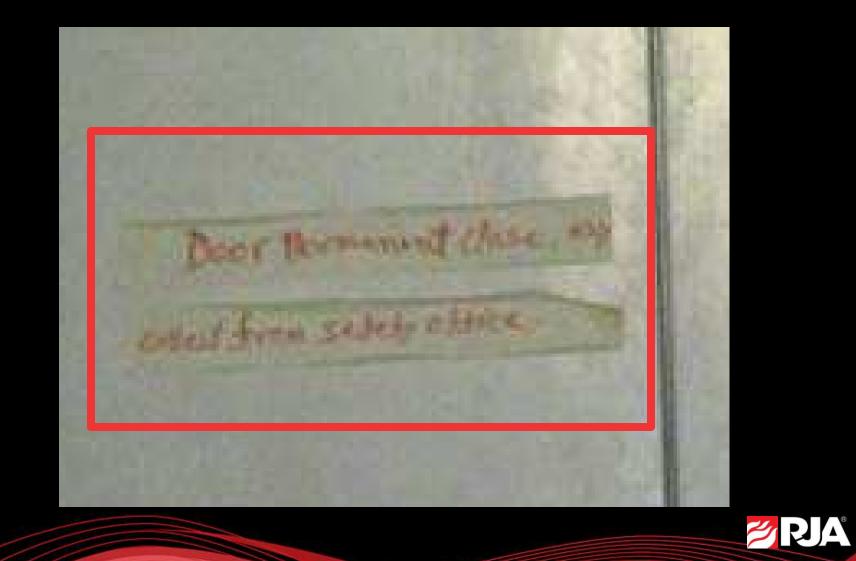






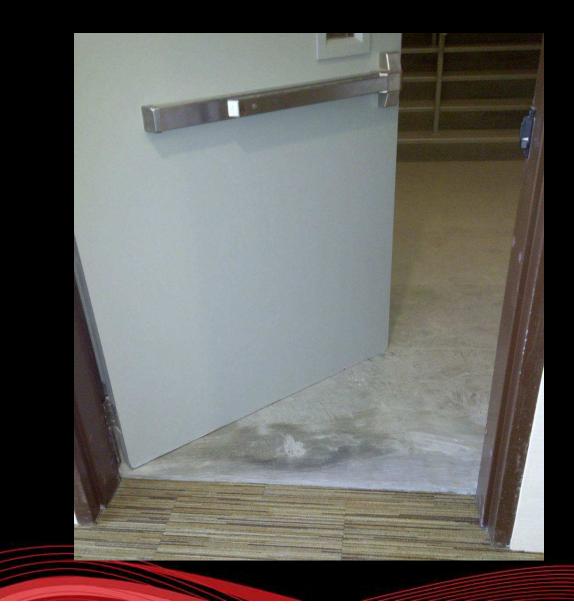




































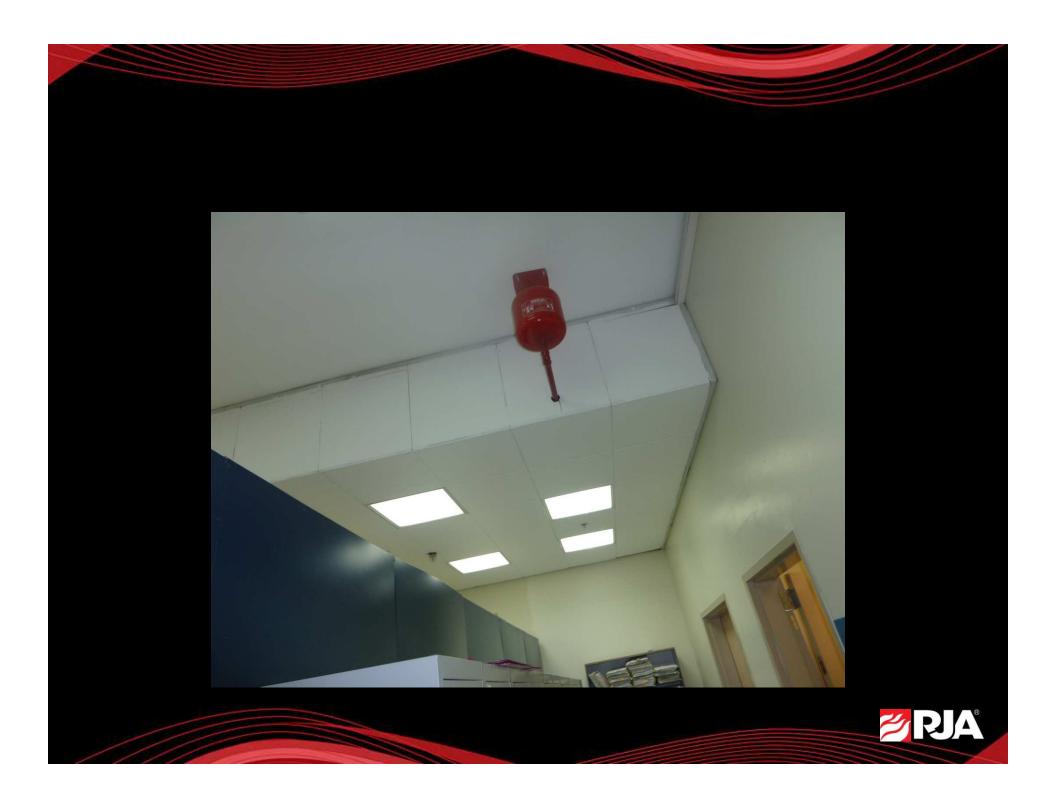












THE CASE FOR THIRD PARTY FIRE PROTECTION REVIEW IN THE GCC

SHAMIM RASHID-SUMAR, P.E., LEED<sup>®</sup> AP **Rolf Jensen & Associates, Inc. Building 6, Office 204 Gold and Diamond Park** Sheikh Zayed Road P.O. Box 37549 Dubai, UAE Telephone: +971 4 323 7120 ssumar@rjagroup.com