

Building Plan Review Submittal Requirements and Checklist for New Construction

Current Adopted Codes

2014 Indiana Building Code (675 IAC 13-2.6)

2014 Indiana Fire Code (675 IAC 22-2.5)

2014 Indiana Mechanical Code (675 IAC 18-1.6)

2010 Indiana Energy Conservation Code (675 IAC 19-4)

2019 Indiana Electrical Code (675 IAC 17-1.8)

2014 Indiana Fuel Gas Code (675 IAC 25-3)

2012 Indiana Plumbing Code (675 IAC 16-1.4)

(also: Associated codes and standards. For a complete list of Indiana adopted codes and standards go to www.in.gov/dhs)

This checklist is provided for the convenience of our applicants. Complete and accurate plan submittals help speed the plan review process. Attention to the completeness and accuracy of information at the beginning of the process generally leads to fewer delays and requests for revisions by staff. Please use the following information to ensure that your application includes all of the information that is necessary for a complete review of your plans.

Applicants are responsible for submitting complete applications. Incomplete applications will result in plans being rejected for acceptance or returned to the applicant during the review process.

Submittal Package:

□ 1	electronic copy of plans in pdf format
□ 1	copy of specifications (if applicable)

New Construction Plans

Construction plans must be stamped in accordance with Indiana General Administrative Rules 675 IAC 12-6-7.

Plans must contain the following minimum contents where applicable. This list is not intended to be all-inclusive of every detail required on a set of New Construction Plans. Rather, it is provided to give an overview of the basic plan contents needed for the review of plan sets.



□ Cover Sheet – Include general project information, such as: address, location map, and square footage of the structures. Also include a complete code analysis of the proposed building and state type of construction. State occupancy classification, occupancy loads, exiting requirements, fire sprinklers and fire alarms. Cover sheet must have a legend of symbols and abbreviations used throughout the plan set.

☐ Code Analysis Info – as applicable

- The list of adopted codes and its edition used for the building design
- Occupancy type
- Special use and occupancy requirements (IBC Chapter 4 and IFC)
- Total square footage. New and Existing (if applicable)
- Actual and Allowable building heights and areas
- Frontage increase applied. Provide calculations
- Fire sprinklers increase applied. What percentage? Provide calculations
- Unlimited area building (if applicable)
- Type of construction. New and Existing (if applicable)
- Fire and smoke protection features installed
- Interior finishes classification
- Fire protection systems being installed
- Occupant load New and Existing (if applicable)
- Occupant load per room including occupant load factor and square footage per room
- Occupant load per exit door including occupant load factor. New and Existing (if applicable).
- Travel distance
- Corridor ratings
- Accessibility requirements met
- Roof assembly construction and rating
- Elevator installed-electric or hydraulic
- Fire walls, ratings, and UL Design (Provide copy of UL documents)
- Fire barriers and ratings



- Fire partitions and ratings
- Fire Doors, ratings, and UL Design (Provide copy of UL documents)
- Fire Windows, ratings, and UL Design (Provide copy of UL documents)
- Identify any deficiencies. Provide a plan of action, from the architect, to fix any problems identified during initial design.

☐ **Life Safety Plan** – Life Safety Plan:

- Entire building layout
- Occupant travel distance in feet
- The location of all fire walls and their ratings. Provide the UL design cut sheet
- The location of all fire barriers and their ratings. Provide the UL design cut sheet
- The location of all fire partitions and their ratings. Provide the UL design cut sheet
- The location of all draft stopping
- The location of all fire extinguishers with the associated travel distance
- The location of all load bearing walls and their ratings
- Indicate the direction of swing for all doors
- Location of all rated doors and their rating specifications
- Location of all rated windows and their rating specifications
- Location of all Rescue Windows
- Occupant load per room including the occupant load factor and square footage per room
- Occupants per exit door and its occupant load factor. New and Existing (if applicable)
- Dead end corridors

Site Details – Include trash enclosures, parking areas, accessibility, wall details, and screening methods for all ground mounted mechanical equipment.
Floor Plans – Dimensioned floor plans showing all walls, structural elements, exits, windows, fire assemblies, draft stops, separations, and related information. All floor plans must be provided with a directional indicator (North) and a numerical scale.
Roof and Ceiling Plans – [ceiling plans may not apply to shell applications] Show all elements,



Exterior Elevations – Show all views, openings, vertical dimensions, and heights. Provide elevations
of exterior walls, including screening methods for all mechanical, electrical, utility, and communications equipment [if applicable].
Building and Wall Sections – Show all height dimensions, materials of construction, non-rated and fire-rated assemblies, and fire-rated penetrations. Provide the UL design
Architectural Details – Building sections, wall sections, waterproofing, fire proofing, weather proofing, door and window information, finishes, and accessibility requirements.
Foundation Plans – Show all foundations and footings. Indicate size, locations, thicknesses, materials, strengths, and reinforcing. Show all imbedded anchoring such as anchor bolts, hold-downs, and post bases.
Floor and Roof Framing Plans – Show all structural members, their size, methods of attachment, location, and materials for roof.
Mechanical Details – [may not apply to shell applications] Provide dimensioned mechanical plans showing duct layouts and sizes, fire, smoke, and combination fire/smoke dampers. Location of mechanical units on roof, ground, or walls. Provide cross-section of roof showing mechanical units and parapet walls. Equipment Schedules [may not apply to shell applications] Provide a detailed schedule of all mechanical equipment and sizes.
Electrical Details – Show the size and location of the main electrical service equipment and all subpanels. Show the location of all outlets, switches, light fixtures (interior and exterior and site), and any special outlets. Identify the locations of all required GFCI and AFCI protected outlets and light fixtures.



Plumbing Details – Plumbing Fixture Schedule [may not apply to shell applications] List each individual fixture and indicate whether each fixture is connected to water, direct waste, and/or indirect waste in a fixture table.
Gas Plan [if applicable] Provide gas demand schedule showing individual and total appliance
BTU/CFH demands. Provide plan view or isometric drawing showing gas pipe type, size, length and shut off location.
Accessibility Details – Provide accessibility details on all plumbing elements and facilities (restrooms bathing rooms, locker rooms, drinking fountains, etc.)
Fire Sprinkler and Alarm System Details – See Fire Protection Systems Plan Review Checklist.
Fire protection system documents are typically submitted by a fire protection subcontractor after the main set of building plans are accepted for review.



Building Plan Review Submittal Requirements and Checklist for Remodel Construction

Current Adopted Codes

2014 Indiana Building Code (675 IAC 13-2.6)

2014 Indiana Fire Code (675 IAC 22-2.5)

2014 Indiana Mechanical Code (675 IAC 18-1.6) 2010 Indiana Energy Conservation Code (675 IAC 19-4)

2009 Indiana Electrical Code (675 IAC 17-1.8)

2014 Indiana Fuel Gas Code (675 IAC 25-3)

2012 Indiana Plumbing Code (675 IAC 16-1.4)

(also: Associated codes and standards. For a complete list of Indiana adopted codes and standards go to www.in.gov/dhs)

This checklist is provided for the convenience of our applicants. Complete and accurate plan submittals help speed the plan review process. Attention to the completeness and accuracy of information at the beginning of the process generally leads to fewer delays and requests for revisions by staff. Please use the following information to ensure that your application includes all of the information that is necessary for a complete review of your plans.

Applicants are responsible for submitting complete applications. Incomplete applications will result in plans being rejected for acceptance or returned to the applicant during the review process.

Submittal Package:

1	copy of	f plans	
1	copy of	f specifications	(if applicable)

Remodel Construction Plans

Construction plans must be stamped in accordance with Indiana General Administrative Rules 675 IAC 12-6-7.

Plans must contain the following minimum contents. This list is not intended to be all-inclusive of every detail required on a set of Remodel Construction Plans. Rather, it is provided to give an overview of the basic plan contents needed for the review of plan sets.

⊔ C	over Shee	t – Include	general	projec	t informatio	n, such as:	pro	ject title	, address,	location ma	o, etc
-----	-----------	--------------------	---------	--------	--------------	-------------	-----	------------	------------	-------------	--------



Cover sheet may include the code analysis of the proposed building and state type of construction. State occupancy classification, occupancy loads, exiting requirements, fire sprinklers and fire alarms. Cover sheet must have a legend of symbols and abbreviations used throughout the plan set.

☐ Code Analysis Info – as applicable

- List codes and editions used for the building design
- Occupancy Type
- Construction Type. New and Existing (if applicable)
- Special use and occupancy requirements (IBC Chapter 4 and IFC)
- Total square footage
- Fire protection systems being installed
- Occupant load
- Occupant load factor per occupancy type
- Code required width of exits based on occupancy type compared to what is provided
- Fire-rated assemblies required/proposed
- Smoke barriers required/proposed
- Smoke partitions required/proposed
- Travel distances allowed for occupancy type
- Corridor ratings
- Accessibility requirements met
- Elevator installed-electric or hydraulic
- Fire walls, ratings, and UL Design (Provide copy of UL documents)
- Fire barriers and ratings
- Fire partitions and ratings
- Fire Doors, ratings, and UL Design (Provide copy of UL documents)
- Fire Windows, ratings, and UL Design (Provide copy of UL documents)

☐ Life Safety Plan – as applicable

- Overall floor layout where remodel is located
- Occupant travel distance in feet
- The location of all fire walls and their rating. Provide the UL design cut sheet
- The location of all fire barriers and their rating. Provide the UL design cut sheet
- The location of all fire partitions and their rating. Provide the UL design cut sheet
- The location of all draft stopping
- The location of all fire extinguishers
- The location of all load bearing walls and their rating
- Indicate the direction of swing for all doors
- Location of all rated doors and their rating specifications
- Location of all rated windows and their rating specifications
- Location of all Rescue Windows
- Occupant load per room including the occupant load factor and square footage per room
- Occupants per exit door and its occupant load factor
- Dead end corridors



	Floor Plans – Dimensioned floor plans showing all walls, structural elements, exits, windows, fire assemblies, separations, room/space identification, and related information. All floor plans must be provided with a directional indicator (North) and a numerical scale.
	Building and Wall Sections – Show dimension of all heights, materials of construction, non-rated and fire-rated assemblies, and fire-rated penetrations. Provide the UL design numbers
	Architectural Details – Building sections, wall sections, door and window information, reflective ceiling, interior finishes, and accessibility requirements.
	Mechanical Details – Provide dimensioned mechanical plans showing duct layouts and sizes, fire, smoke, and combination fire/smoke dampers. Location of mechanical units on roof, ground, or other. Provide cross-section of roof showing mechanical units and parapet walls. Provide a detailed schedule of all mechanical equipment and sizes.
	Electrical Details – Show the size and location of the main electrical service equipment and all subpanels. Show the location of all outlets, switches, light fixtures (interior and exterior), exit signs, emergency lighting, and any special outlets. Identify the locations of all required GFCI and AFCI (dormitories and dwelling units) protected outlets and light fixtures
	Plumbing Details – List each individual fixture and indicate whether each fixture is connected to water, direct waste, and/or indirect waste in a fixture table.
ВТ	Gas Plan (if applicable) Provide gas demand schedule showing individual and total appliance U/CFH demands. Provide plan view or isometric drawing showing gas pipe type, size, length and shut off location.
	Accessibility Details – Provide accessibility details on all plumbing elements and facilities (restrooms, bathing rooms, locker rooms, drinking fountains, etc.
	Fire Sprinkler and Alarm System Details – See Fire Protection Systems Plan Review Checklists. Fire protection system documents are typically submitted by a fire protection subcontractor after the main set of building plans are accepted for review.



This **Sprinkler Plan Review Worksheet** must be completed as part of your Sprinkler Plan Review Submittal Requirements. **A separate and individual work sheet must be sent in for each individual "Remote Area Design".** Please send a completed form (with appropriate signatures) to <u>Safebuildings@wrtfd.org</u>.

PROPERT	Y INFORMATION		
Building Name:			
Building Address:			
Owner's Name:			
Owner's Address:	Owner's Phone Contact:		
Owner's Email:	Owner's Fax:		
SYSTEM DESI	GNER/CONTRACTOR		
Company Name:			
Company Address:			
Contact Person (Designer):			
Phone #: Fax #:	Email:		
System Designed by NICET Level 3 or 4? Yes	No		
NICET Level 3 or 4 Registration # & Name:			
System Designed by Registered Engineer? Yes	□ No		
Name of System Designed by Registered Engineer (•		
	GENERAL		
This proposal represents:			
A new system being installed in the building Extension of an existing system			
Extension of an existing system	<u>:</u>		
NFPA Standard used in the system design and proposed	l installation:		
NFPA 13 (2010 Edition- 675 IAC 28-1-5)	NPFA 13R (2010 Edition- 675 IAC 28-1-6)		
NFPA 13D (Edition)?			
Type of Sprinkler System(s): (Check all that apply)			
Wet Dry Anti-Freeze Pre-Act	<u> </u>		
All sprinkler head "specification sheets and UL Listings"	provided in application? Yes No		
Sprinklers omitted in any area? Yes No			
If yes, allowed per:			
Yes No N/A NFPA 13 Omitted Area(s)?	(Specifically identify omitted areas in narrative space below)		
Yes No N/A NFPA 13R Omitted Area(s)?	(Specifically identify omitted areas in narrative space below)		
	Charles A services and a service and a service and a service and a service a service and a service a		
Narrative of specific omitted area(s) along with specific NFPA 13/13R code requirement :			



Number of Floors (including Basement)?			
Standpipe/Hose Connection Required? Yes	∐No		
Fire Pump Required or Provided? Yes	∐ No		
(If yes, complete detailed "FIRE PUMP INFORMATION"	·		
Fire Department Connections (FDC) located "remot	· ,		
	rative explaining below:		
Yes No NA	ldings with existing sprinklers, undergoing Renovation Only)		
Post Indicator Valve (PIV) located remote from the	huilding?		
Yes No NA If No, expla	-		
	y, pumps critical air pressures, and water-flow switches are		
electronically supervised per IBC 903.4?	,,, p, p p,		
Yes No			
Means through a test header or other connections	downstream of the backflow prevention device available for full		
flow test per NFPA 25: 13.6.2.1 & NFPA 13: 8.17.4.6	5.1 (2011& 2010 Editions respectively)?		
Yes No			
OCCUP	ANCY CLASSIFICATION		
Fire sprinkler occupancy hazard classification:			
Light Hazard Ordinary Hazard Group	· · · · · · · · · · · · · · · · · ·		
Extra Hazard Group 1 Extra Hazard Group 2	Special Occupancy (see note below)		
(Note- Special Occupancy Requirements for the systen	n (Flammable/combustible liquias, oxiaizers, etc.)		
FLOW	TEST INFORMATION		
Date of Flow Test?	Company who performed?		
Static Pressure:	Residual Pressure:		
Flow in gallons:	Coefficient Factor Used:		
STORAGE IN	IFORMATION (if applicable)		
If Storage Information "Not Applicable", skip this s	section and go to DESIGN SPECIFICATIONS Section Below		
If a storage occupancy, commodity classification:			
Class I Class II Class III Class IV			
Group A Group B	Group C		
PRESENCE OF HIGH-PILED and/or RACK STORAGE			
Packaging & Storage Configuration			
Encapsulation of Pallet Loads? Yes No	Rack or Pallet Storage? Rack Pallet		
Aisle Width Dimension?	Flue Space Dimension?		
In-Rack Sprinklers? Yes No	ESFR Sprinklers? Yes No		
"High Piled" Combustible Storage over 12 feet high? Yes No "High Hazard Commodity" Storage over 6 feet high? (i.e., Group A Plastics, Idle Pallets, etc.) Yes No			



Maximum HEIGHT of Storage Planned? Feet	LENGTH of Aisle Width Planned? Feet Inches		
Inches			
Where are Auxiliary Drains and Low Point Drains locat			
Presence of "Solid Shelving"? Yes No	Presence of "Hazardous Materials"? Yes No		
Presence of other "Special Storage"?	Presence of "Antifreeze/ Auxiliary Systems"? Yes No		
DESIGN	SPECIFICATIONS		
Type of System: Hydraulically Calculated Pipe Schedule (for ar	reas 5,000 square feet or less and existing systems only)		
Water Supply for system determined by: Area/Density Curves Room Design Method	d		
Requirements for All Hydraulically	Calculated Systems (Area/Density Method):		
What is the "Design Area" of Water Application specif	ied?		
What is the minimum rate of Water Application "Den	sity" specified?		
Please specify what type (if any) sprinkler "density adj	ustments" have been calculated?		
Check "All" that Apply: ☐ Quick Response Sprinklers ☐ Sloped Ceilings gr ☐ High Temperature Sprinklers ☐ Multiple Adjustm	eater than 2 in 12		
What is the maximum "area" per individual sprinkler s	pecified (per NFPA 13 or specific listing)?		
How many sprinklers are required in the "Design Area"? (per specific listing or NFPA) Formula: (Number of Sprinklers Required) = (Design Area of Sprinkler Application) ÷ (Coverage per Sprinkler Head) Provide mathematical equation here:			
What is the actual formula numbers used to verify Remote Area "Size and Shape"? Formula: 1.2V Design Area= Minimum Length of Rectangle Provide mathematical equation here:			
What is the Maximum Number of Sprinkler Heads per Branch Line? Formula: 1.2√ Design Area			
Provide mathematical equation here:			



What is "In Rack" Demand, Storage Applications (if applicable)? GPM
What is the Hose Stream demand (Inside & Outside)? GPM
What is the total required water required for the sprinkler system (including hose demand)?
Are there any "combined sprinkler & standpipe" systems in the building, and if so, what are the minimum "pressure"
requirements as outlined in NFPA 14?
What limitations (<u>dimension, flow and pressure</u>) on extended coverage or other listed special sprinklers? (if applicable)
Additional Requirements (Room Design Method)
Design Density of Sprinkler meets 11-3.1.3 (NFPA 13 2010 Edition) (minimum of .10 gpm/s.f.)?
Based upon the room that creates the greatest water demand (including corridors/hallways)?
Room enclosure walls must have a fire rating equivalent to required water supply duration based upon the hazard? Yes No
Protection of Openings Provided per design criteria below?
Yes No Light Hazard : Automatic or Self-Closing Doors or include room sprinklers plus (2) sprinklers in communicating space.
Yes No Ordinary & Extra Hazard: Automatic or Self-Closing Doors (Required) & Wall Rating (Not ceiling) equivalent to appropriate enclosure rating.
Yes No If using Corridor for the Room Design Method (must meet all of the following):
 Only applicable if one row of sprinklers are installed in Corridor.
- Calculate 5 sprinklers if openings are protected.
- Calculate 7 sprinklers if openings are not protected.
Yes No Room Design Compartment sprinklers under a flat, smooth, horizontal ceiling?
Additional Requirements (NFPA 13 R Systems- Residential Sprinklers)
Yes No Building is not more than 4 stories in height?
Yes No Listed Residential Sprinklers shall be used in all residential portions (dwellings) of building (per UL
1626)?
Exception : Listed Quick Response sprinklers may be used provided no more than 4 sprinkler heads
are located within compartment or dwelling
Yes No Standard or Quick Response Sprinklers shall be used in areas outside the dwelling unit
Exception : Residential Sprinklers shall be permitted in adjoining corridors or lobbies, provided
with flat, smooth ceilings, and ceiling heights not exceeding 10 feet.
Design Discharge Criteria (based upon these two criteria: Inside & Outside Dwelling):
Yes No Inside Dwelling Unit
- Residential Sprinkler Heads Only (very small units may use QR Heads)
- GPM not less than 18 gpm per single operating sprinkler and 13 gpm for multiple sprinklers
within a compartment (per NFPA), or per specific listing.



LESSEC CO.	
	- Density Required at 4 most hydraulically demanding at a density of (.05 gpm/sq.ft.)
	- Water Supply Duration 30 minutes
Yes No	Outside Dwelling Unit
	 Per NFPA 13 Criteria (QR & QR Extended Coverage Sprinklers Allowed)
	- <u>Exceptions</u>
	Compartmented areas less than 500 sq.ft. (with all of the following)
	30-minute fire rated construction
	Protected with Standard or QR sprinklers not exceeding 130 s.f./sprinkler, and
	Openings from the compartment protected or (less than 50 s.f. with "lintel" at least 8
	in.)
	Discharge Density for hazard per NFPA 13
SP	RINKLER COMPONENTS: Is the following information provided on plans/specifications?
Yes No	Provide complete catalog cut sheets for all equipment and materials used?
Yes No	Hydraulic data nameplate (for hydraulically designed systems)?
☐ Yes ☐ No	Hydraulic reference points shown on the plan that corresponds with comparable reference points
	on the hydraulic calculation sheets?
Yes No	Most demanding area is <u>highlighted on plans</u> and provided in hydraulic calculations?
Yes No	Pipe sizes and lengths shown on the plan correspond with the sizes and lengths shown on the
	hydraulic calculation sheets?
Yes No	Relative elevations of sprinklers, junction points, and supply or reference points?
Yes No	Proved details and section view outlining all ceiling information on plans.
	(Including Ceiling Height, Soffits, Obstructions, etc.)?
Yes No	Pressure loss for backflow preventer and/or meter included in hydraulic calculations?
Yes No	Hanger types and locations show on plans?
Yes No	☐ N/A Provide a 2 ½ standpipe hose outlet at the highest landing of the stairways with access to
the	
	roof, and on the roof where stairways do not access the roof with an additional 2 1/2 hose
	connection? (if applicable)
Yes No	□ N/A Provide floor control valves at each floor in multi-story buildings? (if applicable)
Yes No	□ N/A Approximate capacity (in gallons) of each dry pipe system? (if applicable)
Yes No	A General Information Sign to be provided on System Riser per Section NFPA 13(2010):24.6?
	FIRE PUMP INFORMATION (if applicable)
If Fire Pump "N	ot Applicable", skip this section.
Manufacturer:	Type: Diesel Electric
Rated PSI:	Rated GPM:
Rated HP:	Controller Type:
Dedicated Elect	rical Service Provided? Yes No Unknown
Provide a stand	by or emergency power supply to the fire pump
	tic power transfer switch controller?



Provide details and catalog cut sheets on the fire pump controller?
Fire Pump Booster pump connection provided with pressure device or switch to control operation when pressure to pump suction drops per IAC 327 IAC 8-10-3?
Fire Pump Booster pump provided with audible or visual alarm to provide warning when flow occurs per IAC 327 IAC 8-10-3? Yes No Unknown
Fire Pump Booster pump provided with a control valve on the booster pump discharge to automatically throttle the flow as necessary to maintain a minimum of ten (10) pounds per square inch per IAC 327 IAC 8-10-3?
Fire Pump Room fire-resistive-rated to 2 hour? (or 1 hour with sprinklers) per NFPA 20 Yes No Unknown
Designer or Owner: I certify that the information provided in this document is true and accurate.
(Printed Name)
(Signature)
(Date)
(Company Name)
(Email and Phone Contact)



Provide explanation to any questions answered "No" here:



This **Commercial Cooking Exhaust Hood, Duct & Exhaust Fan** worksheet is has been created to assure all documentation has been submitted to assist you in assuring proper plans and documentations has been submitted and reviewed by the White River Township Fire Department Fire Prevention Division to help streamline your project. It is required to be included as part of the Commercial Kitchen Hood Plan Review Submittal. Please send a copy of this completed form to Safebuildings@wrtfd.org with appropriate signatures.

Applicable Codes / Editions	Indiana Building Code 2014, Indiana Fire Code 2014, Indiana Mechanical Code 2014
	PROPERTY INFORMATION
Building Name:	
Building Address:	
Owner's Name:	
Owner's Address:	
Owner's Email :	
Owner's Phone #:	
	SYSTEM DESIGNER/CONTRACTOR
Company Name:	
Company Address:	
Contact Person (Designer):	
Phone #:	
System Designed by Registered E	· · · · · · · · · · · · · · · · · · ·
Name of System Designed by	Registered Engineer (stamp included):
	KITCHEN EXHAUST SYSTEM INSTALLER
Company Name:	
Company Address:	
Contact Person:	
Phone #:	4 DECIGN DECIMENTATION
A	1. DESIGN REQUIREMENTS
Are you <u>exempt</u> from Kit	chen Exhaust Hood & Suppression Requirements? (Table-507.2)
Ves No	
Yes No	
(If no, proceed to	o Section 2) (If yes, complete remainder of Section 1)
Check Cll that apply	
a) Is your establishment regulated by the Board of Health under 410 IAC 7-24?	
☐ Yes?	
□ No?	



b) Are you using "Commercial G	irade" or "Residential Grade (De	omestic)" Appliances?
	e" Cooking Appliances?	
	Grade" & "Commercial Grade" (Cooking Appliances
<u> </u>	Jiade & Collinercial Grade	COOKING Appliances:
c) What type of cooking process		I that apply)
☐ "Warming" of food		
"Cooking" of food?		
"Frying" of food?		
	2. TYPE OF HOO	D
"Type I" or "Type II" Hood(s)?		
Yes No N/A		
Type I Hood	- Collecting and removal of grea	ase and smoke (IMC 507.2.1)
Type I Hood (Solid Fuel) - Collecting and remo	oval of grease and smoke
(Separa	ate or "Independent" Hood Pro	vided?) (IMC 506.3.5)
Yes No N/A		
	-	am, vapor, heat, or odors. (IMC 507.2.2)
•	electrically heated appliances su	
	n poppers, hot dog cookers, cof	ffee makers, rice cookers, egg cookers, and
holding/warming oven.		
(Additional heat and moisture	loads generated by such applia	ances shall be accounted for in the design of the
HVAC System)(IMC 507.2.2)		
	Manufacturer of Hoo	A
	ivialidiacturer of floor	u
Mfg., Make & model of kitchen hood		
	3. STYLE OF EXHAUST	HOOD
Style of Exhaust Hood(s)		
Check all that apply		
Wall Mounted Canopy	Single Island Canopy	□ Double Island Canopy
Eyebrow	☐ Back Shelf	Pass Over



4. LISTED & "LABLED" REQUIREMENTS
Yes No
☐ Designed per UL 710 Standard- Exhaust Hoods for Commercial Cooking Equipment?
☐ Hood provided with an attached label, symbol, or other identifying mark of the "listed" organization
engaged in product evaluation?
☐ ☐ Hood " <u>listing card</u> " provided with application?
Detailed Information provided on Cooking Appliances provided (see Item # 8 below)
If hood is <u>not listed</u> per UL 710 Standards, <u>Complete Section # 5 below.</u>
5. Unlisted & "Unlabled" Hood Requirements
(Skip this section if not applicable)
V N- N/A
Yes No N/A Designed per IMC 507.13 Requirements?
Detailed Information provided on Cooking Appliances "Duty Ratings"
Detailed information provided on cooking Appliances Daty Natings
6. Size, Location, and Outlet requirements of Hood(s)
Yes No
Detailed Drawing provided in application?
Amount of Linear Feet of Hood used in design, provided?(feet)
6 inch hood "overhang" from cooking appliances provided? (IMC 507.12)
Each "exhaust outlet" does not serve more than a 12-foot section of hood? (IMC 507.15)
☐ ☐ Maximum Distance from Cooking Surface(s) to lip of hood, per manufacturer's instructions provided?
(inches)
- Canopy Hoods (4 feet maximum distance) (IMC 507.12)
- Non-Canopy Hoods (<i>3 feet maximum distance</i>) (IMC 507.14)
7. Detailed Diagram of Cooking Equipment under hood & Appliance Type Information
Yes No N/A
Detailed Drawings showing dimensional <u>location(s)</u> of Cooking Equipment under hood in
application?
Detailed "Appliance Type" specification sheets "cut sheets" provided in submittal? (IMC 202)
Check all that apply
High-heat appliance(s) (flue temp. less than 2,000 F.)
Low-heat appliance(s) <u>residential appliances</u> (flue temp. less than 1,000 F.)
Medium-heat appliance(s) (flue temp. more than 1,000 F., but less than 2,000 F.)



Yes No N/A	
	Hood Front Face Length of Hood (in linear feet) "details" provided in Section 6? Electric Cooking Equipment designed to UL 197 Standards? Gas Cooking Equipment designed to UL 795 or ANSI Z83 Standards? Wood Fired Cooking Equipment designed to UL 2162 Standards?
8. Appliance Du	uty Rating Classification(s) ("Listed" Hood Classification provided by Mfg)(IMC 507.13)
Yes No N/A	Extra Heavy Duty -Must have "separate" exhaust hood (per IMC 507.2.4) Heavy Duty Medium Duty Light Duty
	9. Appliance Duty Rating Classification(s) ("ASHRAE Standard 154")
Yes No N/A	Extra Heavy Duty (Solid Fuel- Charcoal, Briquettes, or Wood) - Must have "separate" exhaust hood (per IMC 507.2.4)
	Heavy Duty - Electric & Gas Broilers, Electric & Gas Conveyor Boilers, Gas Open-Burner Ranges (with or without oven), Electric & Gas Wok Ranges, Salamanders
	Medium Duty - Electric & Gas Ranges (with or without oven), Electric & Gas Griddles, Electric & Gas Fryers (including donut fryers), Electric & Gas Pasta Cookers, Electric & Gas Conveyor Pizza Ovens, Electric & Gas Rotisseries
	Light Duty - Gas & Electric Ovens, Electric & Gas Steam-Jacketed Kettles, Electric & Gas Steamers, Electric & Gas Cheesemelters.
10. Ductless Hoods (<u>Skip this section if not applicable</u>)	
Yes No N/A	Designed in accordance with UL 710B Standards? Listed Information provided in application? Manufacturer's information provided in application?



11. Hood Material and Gage	
Type I Hoods Yes No N/A Minimum 20 Gage- Stainless Steel, provided? (IMC 507.4) External hood joints, seams and penetrations welded, & sealed grease-tight? (IMC 507.7.1) Internal hood joints, seams, penetrations, filter support frames and other appendages attached inside the hood sealed grease-tight? (IMC 507.7.1)	
Type II Hoods Yes No N/A Minimum 24 Gage- Stainless Steel, provided? (IMC 507.5) Joints, seams, and penetrations water tight? (IMC 507.7.2)	
12. Hood Supports (IMC 507.6)	
Yes No Type I Hoods secured in place by non-combustible supports? (IMC 507.6) All hoods shall be adequate for the applied load of the hood, unsupported ductwork, and possible weight of personnel working in or on the hood? (IMC 507.6)	
13. Hood Clearance to Combustible Materials (IMC 507.9)	
Yes No N/A 18 inches to combustible material, provided? A non-combustible wall or panel, with a smooth, cleanable, and corrosion-resistant surface, provided? D inches to non-combustible materials, detailed "installation specifications" provided with submittal?	
14. Grease Filters (IMC 507.11 & Table-507.11)	
Yes No Grease filters designed to meet UL 1046 Standards? (No Mesh Filters Permitted) Tight-Fitting & Readily Removable without the use of tools? (IMC 507.11.1) Drip tray provided beneath lower edge of filters and pitched to collect grease? (IMC 507.11.2) Grease gutters provided to allow access for cleaning? (IMC 507.8) Filters installed at an angle not less than 45 degrees from horizontal? (IMC 507.11.2) Drip tray provided beneath lower edge of filters and pitched to collect grease? (507.11.1)	



15. Suppression Piping Penetrations into Hood (IMC 507.7.1 & 509.1)
Yes No Shall have liquid tight continuous external weld or be sealed by labeled device.
16. "Compensating Hoods" -make-up air delivered directly into Canopy Hood(s) (IMC 506.3.1.2)
"Fire Damper" Required for:
Yes No N/A
Short-Circuit (Internal Supply Make Up Air) Damper, provided?
☐ ☐ Air Curtain or Down Face Damper (Internal Supply-MUA), provided?
17. ALL answers checked "NO", must be provided with a detailed written narrative below:
DESIGN REQUIREMENTS FOR DUCTS
1. Duct size and requirement(s)
Yes No
☐ ☐ Duct size dimensions and locations shown on plans submitted?
☐ ☐ Not interconnected with any other building ventilation or exhaust system?(IMC 506.3.5)
☐ ☐ Electrical wiring or wiring systems are not located within duct? (IMC 301.7)
Designed per UL 1978 Standards ? (IMC 304.1 & 506.3.1.1, Exception 1)
☐ ☐ Designed per manufacturer's instructions? (IMC 304.1)
☐ ☐ A copy of the "manufacturer's installation instructions" included in plan application ? (IMC 304.1)



A copy of the "manufacturer's installation instructions" provided to owner or representative and available on the job site at the time of inspection ? (IMC 304.1)
2. Exhaust Duct Velocity (Need Specifications on Exhaust Fan to calculate)
Yes No Sized to meet 500 feet per minute (fpm) minimum requirements? (IMC 506.3.4)
3. Construction "Type I Ducts" (Not applicable for Type II Hoods)
Designed per which one of the following:
Yes No O55 inch thick Steel (#16 manufacturer's standard gauge)? (IMC 506.3.1.1) O44 inch thick (# 18 gauge Stainless Steel)? (IMC 506.3.1.1) Listed and labeled per UL 1978? (IMC 506.3.1.1) Labeled grease ducts installed according to mfg. recommendation provided?(IMC 304.1) All portions of the duct "leak tight"? (IMC 506.3.3.1) "Grease Duct Test Leakage Test" to be performed in the presence of Code Official? (IMC 506.3.3.1) Ducts exposed to outside atmosphere protected against corrosion (IMC 506.2)? Duct-to-hood joints designed per Code? (IMC 506.3.2.2) Duct bracing & support shall not penetrate duct walls? (IMC 506.3.3)
4. Duct(s) penetrating fire-resistive construction: (IMC 506.3.10)
Yes No N/A
5. Type I Duct(s) "Clearance to Combustibles"
Yes No N/A ☐ ☐ 18 inches to combustible material? (IMC 506.4, 506.5.4, & 506.3.1.2)



	0 inches to noncombustible material? (Listed Duct Wrap) (IMC 506.3.6)
	Fire-resistance Duct Wrap Materials "Listings" & "Manufacturers Installation Instructions"
	included with plan submittal? (IMC 304.1)
	Rated Shaft Enclosure provided? (IMC 506.3.11)
	6. Access Panel Openings for Inspection and Maintenance of Grease Ducts
	or recess rance openings for inspectation and maintenance or crease bases
Yes No N/A	
	Same material and thickness as duct?
	Provided with "tight-fitting" sliding or hinged doors? (IMC 506.3.8)
	Exhaust ducts in concealed locations, shall be indicated by permanent labels or tags installed in
	observable locations? (IMC 504.6.1)
	"Listed" Grease Tight Gasket and Sealant provided on openings? (IMC 506.3.8)
	Access doors shall not have fasteners that penetrate the duct, and operable without the use of a
	tool ? (IMC 506.3.8)
	To be installed according to mfg. instructions & copies of listing provided in application packet?
	(IMC 304.1)
	Sign posted on all access panels marked "Access Panel- Do Not obstruct"? (IMC 506.3.11)
	Horizontal Sections of Duct- access panels spaced not more than 20 feet apart? (IMC 506.3.9)
	Vertical Sections, access panels provided at the top of the vertical riser, and at each floor level in
	multi-story buildings? (IMC 506.3.11)
	Access Panel(s) provided at each changes of direction?
	Minimum dimension of "side openings" shall be 12 inches on each side? If can't provide minimum
	dimension, duct openings shall be located on the <u>top of the duct</u> (IMC 506.3.9)
	Cleanouts located on the top of duct, shall meet a minimum of 1 inch from the sides of the duct,
	and shall be readily accessible for maintenance? (IMC 506.3.9)
	At least one (1)- 20 inches by 20 inches "opening" located where ductwork is large enough to
	allow entry of personnel, with adequate supports? (IMC 506.3.8.1)
	Cleanouts located on the side of ducts, shall be greater than 1.5 inches above bottom of the duct,
	and not closer than 1 inch to the top of the duct? (IMC 506.3.9)
7 7	
7. Prevention of Grease Accumulation in horizontal ducts (Slope Requirements)(IMC 506.3.7)	
Yes No N/A	
	Slope of ¼ inch per lineal foot toward hood or approved grease reservoir?
	Greater than 75 feet horizontal length, Slope of 1 inch per lineal foot toward hood?



<u> </u>
8. ALL answers checked "NO", must be provided with a detailed written narrative below:
DESIGN REQUIREMENTS FOR EXHAUST FAN(S)
<u>Fan Specifications</u>
Manufacturer:
Make & Model of Fan:
1. Listed and Labeled Fan
Yes No
Designed per UL 762 Standard- Restaurant Exhaust Appliances? (IMC 506.5.1)
Equipment or materials has been attached a label, symbol, or other identifying mark of the organization
engaged in product evaluation? (IMC 506.5)
2. Hood Controls (Electrical)
Yes No
Make-up fan(s) " <u>electrically interlocked</u> " to operate whenever cooking operations occur and automatically controlled to start and operate simultaneously with exhaust system?
(including "Kitchen" HVAC air supplied at no more than 20%) (IMC 507.2.1.1 & 508.1)
☐ ☐ Make-up fan "interlocked" with fire suppression system to shut down when suppression system
activates? (IMC 508.1)
Exhaust fans continue to operate after the fire extinguishment system activates & supply fans serving
exhaust hood assemblies with integrated supply air plenums shall be shut off with the fire-
extinguishing equipment is activated.
Fire Alarm(where required) is activated upon automatic or manual activation of suppression system?(IFC 907.14)
Gas and/or Electric Cooking Equipment located under hood shall shut down upon suppression
activation (& shall require manual resetting prior to fuel or power restoration)? (IFC 904.11.2)



3. Fan Selection	
Minimum "Exhaust Flow Requirements" (information required for each independent hood system)	
Yes No	
CFM/ linear foot required (per listing provided by manufacturer, or IMC 507.13)	
☐ ☐ Minimum Exhaust "Duct Velocity" Requirements (500 fpm)	
Actual Exhaust "Duct Velocity" per design fpm.	
Listed Information "cut sheet" provided in application?	
Manufacturer's installation instructions provided in application?	
Minimum "Make-up Air Flow Requirements". (IMC 508.1)	
Yes No CFM required (per listing provided by manufacturer)	
Maximum 20% of required CFM delivered through Kitchen HVAC, ("interlocked" to "automatically")	
operate during cooking operations).(IMC 505.2)	
Amount of make-up air supplied shall be approximately equal to the amount of exhaust air?	
Yes No	
☐ Tempered Makeup air provided? (makeup air shall not exceed 10 degrees F conditioned space air)?	
(IMC 508.1.1)	
- Exception: Short-Circuit Make up air delivered within the hood cavity, need not be tempered,	
except as required per manufacturer's instructions.	
4. Termination of Fan	
Yes No	
Roof-top Termination? (If yes, Complete Section #5 below)	
Wall Termination? (If yes, Complete Section # 6 below)	
5. Roof-top Termination(s)	
Yes No N/A	
Exhaust Outlets terminate more than 40 inches above roof? (IMC 506.3.13.1)	
Exhaust Outlets terminations shall not be directed towards nor impinge on any structure?	
(IMC 506.3.13.3)	
Provided with a grease drain system to a rainproof collection container or remote	
grease trap? (IMC 506.5.2)	



Clearance(s) Yes No N/A Minimum 10 feet of horizontal clearance to:(IMC 506.3.13.3 & 508.1 & 401.4) Contiguous and/or adjacent buildings, property lines, and above adjoining grade level. Air Intakes Openings: minimum of 10 feet horizontal & 3 feet above Minimum of 5 feet of clearance from: (IMC 506.3.13.3) Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining grade level, when exhaust outlet discharges away from such locations.		
Yes No N/A ☐ ☐ ☐ Minimum 10 feet of horizontal clearance to:(IMC 506.3.13.3 & 508.1 & 401.4) - Contiguous and/or adjacent buildings, property lines, and above adjoining grade level. - Air Intakes Openings: minimum of 10 feet horizontal & 3 feet above Minimum of 5 feet of clearance from: (IMC 506.3.13.3) - Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining grade		
Yes No N/A ☐ ☐ ☐ Minimum 10 feet of horizontal clearance to:(IMC 506.3.13.3 & 508.1 & 401.4) - Contiguous and/or adjacent buildings, property lines, and above adjoining grade level. - Air Intakes Openings: minimum of 10 feet horizontal & 3 feet above Minimum of 5 feet of clearance from: (IMC 506.3.13.3) - Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining grade		
 Minimum 10 feet of horizontal clearance to:(IMC 506.3.13.3 & 508.1 & 401.4) Contiguous and/or adjacent buildings, property lines, and above adjoining grade level. Air Intakes Openings: minimum of 10 feet horizontal & 3 feet above Minimum of 5 feet of clearance from: (IMC 506.3.13.3) Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining grade 		
 Contiguous and/or adjacent buildings, property lines, and above adjoining grade level. Air Intakes Openings: minimum of 10 feet horizontal & 3 feet above Minimum of 5 feet of clearance from: (IMC 506.3.13.3) Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining grade 		
- Air Intakes Openings: minimum of 10 feet horizontal & 3 feet above		
☐ ☐ ☐ Minimum of 5 feet of clearance from: (IMC 506.3.13.3) - Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining grade		
- Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining grade		
level, when exhaust outlet discharges away from such locations.		
Safe Access (IMC 306.5):		
Yes No N/A		
 Equipment located on structures 16 feet in height or greater, require permanent ladders? Equipment located on sloped roofs" greater than 25 percent (3 in 12) at any height, are required 		
to have a platform not less than 30 inches in any dimension and provided with guardrails not less		
than 42 inches above the platform? Access to equipment platforms shall not require walking on		
roofs have a slope greater than 33 percent (4 in 12)?		
Equipment located outside of roofline, shall be provided with safe access and work platform for		
service, repair, and maintenance.		
☐ ☐ A receptacle outlet shall be provided at or near the equipment.		
6. Wall Termination(s) (IMC 506.3.12.2)		
Yes No N/A		
Exhaust Outlets terminations shall not be directed towards nor impinge on any		
structure? (IMC 506.3.13.3)		
Provided with a grease drain system to a rainproof collection container or remote		
grease trap? (IMC 506.5.2)		
 Hinged Kit provided permit proper inspection and cleaning (IMC 506.5.3) Flexible weatherproof electrical cable to permit proper inspection and cleaning. 		
Trexible weather proof electrical cable to permit proper mapecular and cleaning.		
Clearance(s) (IMC 5065.3.12)		
Yes No N/A		
Permitted where does not create public nuisance or fire hazard?		
☐ ☐ Shall not be located where "protected openings" are required per IBC?		



☐ ☐ Shall not be located within 3 feet of exterior openings (window, doors, HVAC)?
☐ ☐ Minimum 10 feet of horizontal clearance to: (IMC 506.3.13.3)
 Contiguous and/or adjacent buildings, property lines, and above adjoining grade level.
Air Intakes Openings: minimum of 10 feet horizontal & 3 feet above
☐ ☐ Minimum of 5 feet of clearance from: (IMC 506.3.13.3)
 Contiguous and/or adjacent buildings, air intakes, property lines, and above adjoining
grade level, when exhaust outlet discharges away from such locations.
☐ ☐ Minimum of 3 feet of clearance of exterior openings (windows, doors)?
Sofo Access (INAC 205 E).
Safe Access (IMC 306.5):
Yes No N/A
Equipment located outside of roofline, shall be provided with safe access and work
surface for inspection and cleaning?
A receptacle outlet shall be provided at or near the equipment (IMC 306.5.2)
7. ALL answers checked "NO", must be provided with a detailed written narrative below



DISCLAIMER: The information presented above is the basic requirements for commercial construction and is not to be relied upon for the complete requirements for commercial construction. It is to your advantage to use a design professional or a professional contractor to assist you with those areas of construction with which you are unfamiliar. Unfamiliarity with the applicable codes may cause unplanned delays and unforeseen costs to comply with code regulations.

(Printed Name)		
(Signature)		
(Date)		
(Company Name)		
(Email and Phone Contact)		



This **Fire Alarm Plan Review Worksheet** is to be completed with your Fire Alarm Plan Review Submittal. Please contact us with any questions at <u>Safebuildings@wrtfd.org</u> or (317)888-8337.

PROPERTY INFORMATION		
Building Name:		
Building Address:		
Owner's Name:		
Owner's Address:	Owner's	s Phone Contact:
Owner's Email:	Owner's	s Fax:
	SYSTEM DESIGNER/CONT	RACTOR
Company Name:		
Company Address:		
Contact Person (Designer):		
Phone #:	Fax #:	Email:
Yes No		experienced in the proper design, application, m systems per NFPA 72- 10.4.1 (2010 edition).and
☐ Yes ☐ No		ations to install and test fire alarm systems (i.e. raining and Certified, etc.) per NFPA 72 -10.4.3
Yes No	Copy of installer's current certificat	ion is provided with submittal?
	GENERAL	
Indicate if the installation of the proposed Fire Alarm System is (check all that apply): Required by State of Indiana Building Code Required by Insurance Provider Not Required, system voluntarily installed Other		
NFPA Standard used in the syste NFPA 72 (2010 Edition-6	m design and proposed installation: 675 IAC 28-1-28)	
This proposal represents: A new system being installed in the building Extension of an existing system Other ?		
Construction Type of Building (as defined by the Indiana Building Code): Type I Type II Type III Type IV (Heavy Timber) Type V Mixed		
Occupancy(s) Classification of Building (as defined by the 2014 Indiana Building Code): Check ALL that apply A-1 A-2 A-3 A-4 B E F-1 F-2 H-1 H-2 H-3 H-4 H-5		
☐ I-1 ☐ I-2 ☐ I-3 ☐ M	R-1 R-2 R-3 R-4	S-1 S-2



System required per 2014 IBC 90	7.2 through 907.2.23: (Check all that apply)	
Group A (manual fire alarm having an occupant load greater than 300)		
	aving an occupant load greater than 500 or 100 above or below the lowest level of exit	
discharge)		
	stem required unless occupant load is below 50)	
	stem required when building is two (2) or more stories in height and occupant load is	
500 above or below the lowest le	·	
	equired in Group H-5 and in occupancies used to manufacture organic coatings.	
	red for highly toxic gases, organic peroxides, and oxidizers in accordance with IFC	
Chapters 37, 39, and 40)	Total for mighty come gassay or game per emitted, and emitted in accordance manner	
	stem required. Smoke detection required in Groups I-1, I-2, and I-3)	
	stem when occupant load is greater than five hundred (500) or one hundred (100)	
above or below the lowest level of		
	system required, automatic fire alarm system required in interior corridors serving	
sleeping rooms, smoke alarms are		
	system required where sleeping units are located three (3) or more stories above the	
lowest level of exit discharge, any	dwelling or sleeping unit is located below the highest level of exit discharge, or the	
building contains more than 16 d		
	Factory specifications are included for all devices and wiring to be installed with this	
☐ Yes ☐ No	system?	
Dyss DNs	A copy of the required Construction Design Release from the State of Indiana for the	
☐ Yes ☐ No	fire alarm system is included per 675 IAC 12-6-4 Sec. 4(b)(3)(G)?	
	A Knox Box shall be installed on the exterior of the building where the fire alarm	
	and/or sprinkler system is monitored or the non-monitored fire alarm system is	
Yes No	equipped with an outside audible/visual signaling device per 2014 IFC 506.1. The	
	location of the Knox Box shall be approved by the fire department prior to	
	installation?	
` Vee Ne	All rooms are labeled on floor plans that are consistent with final room numbers of	
` Yes No	each room?	
Yes No	All rooms are labeled on floor plans are in accordance with their usage?	
Yes No	Equipment symbol legend is provided on plans?	
	Reflected ceiling plan shows location of all other equipment on ceiling? (i.e., supply	
Yes No	registers, return air grills, ceiling fans, etc.) or anything else that would interfere with	
	the proper operation of the detector?	
Yes No	Location of Fire Alarm Control Panel noted on plans? (FACP)	
Yes No N/A	Locations of all Remote Annunciators noted on plans? (RA)	
Yes No	Locations of <i>all</i> devices are shown on floor plans?	
	Locations of all end-of-line resistors and/or end-of-line relays are shown on submitted	
☐ Yes ☐ No	drawings?	



PRIMARY POWER SUPPLY			
The dedicated branch circuit for the fire alarm system is supplied by means defined in NFPA 72 10.5.5.1 (2010 edition):			
Commercial light and power			
An engine-driven generator	I links and a consumer of an arrains divine a consumer.		
A combination of commercia	l light and power and an engine-driven generato	or.	
□ Vos. □ No	Dedicated branch circuit will be mechanically p	protected with a "breaker lock" per	
Yes No	NFPA72: 10.5.5.3 (2010 edition)?		
□ Vos. □ No.	The circuit breaker is painted red and circuit no	umber on the electrical panel schedule	
☐ Yes ☐ No	is identified as "FIRE ALARM CIRCUIT" per NFP	A 72: 10.5.5.2.3 (2010 edition)?	
	The panel number and circuit number are perr	nanently labeled in the fire alarm	
Yes No	control panel NFPA 72: 10.5.5.2.1 (2010 edition	n)?	
	SECONDARY POWER SUPPLY		
	Calculations are provided that prove the secon	dary power has sufficient capacity to	
	operate the fire alarm system under quiescent	load for a minimum of 24 hours and at	
☐ Yes ☐ No	the end of that 24 hours be able to operate all	alarm notification appliances for a	
TesINO	period of 5 minutes per NFPA 72 10.5.6.3.1 (20	010 edition)?	
	If not located within the fire alarm control pan	el, the location of the batteries being	
Yes No	utilized for secondary power shall be marked o	on the plans and permanently identified	
	at the control unit per NFPA 72 10.5.8.4 & 10.5	5.9.2.5 (2010 edition)?	
	ALARM SYSTEM SUPERVISION		
Central Station System	Proprietary Supervising Station System System System	stem not monitored (2014 IBC 907)	
Name of Monitoring Station:			
Contact:			
Address:			
Address:			
Phone:	Fax:	E-mail:	
	For sprinklered buildings, all valves controlling	the water supply, pumps, tanks, water	
Yes No N/A	levels and temperatures, critical air pressures,	and water-flow switches are	
	electronically supervised per 2014 IBC 903.4		
COMMUNICATION			
DACT shall employ two (2) Transmission channels; one for the primary channel and a different transmission technology			
from the secondary channel per NFPA 72-26.6.3.2.1.4(A) (2010 Edition).			
The primary channel to be provided is provided by (only check one): *Note: VOIP NOT Accepted.			
A telephone line (POTS) A cellular telephone connection A one-way radio system			
An internet alarm communicator A two-way RF multiplex system			
The secondary channel to be provided by (only check oneNOTE- Cannot be the same channel as the primary channel)			
☐ A telephone line (POTS) ☐ A cellular telephone connection ☐ A one-way radio system			
An internet alarm communica	itor 🔲 A two-way RF multiplex system		



Type of System (check all that apply)		
Manual System Automatic Smoke and Fire De Manual and Automatic Addressable System Point Addressable System Analog Addressable System Conventional Zone System Wireless System	etection	
	Wiring and Circuits	
Yes No N/A	Fire alarm wiring installed in a plenum space is plenum rated per 2014 IMC 602.2.1.1?	
☐ Yes ☐ No	Initiating device circuits are indicated on the submitted drawings per NFPA: 72-10.17.1.1 & 23.4.2 (2010 edition)?	
☐ Yes ☐ No	Signaling line circuits are indicated on the submitted drawings per NFPA72-10.17.1.1 & 23.4.2 & 23.4.3 (2010 edition)?	
	Notification Appliances (Ch.18)	
Yes No	The total <u>sound pressure</u> between the ambient noise level and the fire alarm notification device shall not exceed 110 dBA per NFPA 72:18.4.1.2 (2010 edition)?	
☐ Yes ☐ No	The <u>sound level</u> is at least 15 dBA above the average ambient sound level per NFPA 72:18.4.3.5.1(2010 edition)?	
☐ Yes ☐ No ☐ N/A	The <u>sound level</u> for sleeping rooms is at least 15 dBA above average ambient sound level or 75 dBA measured at the pillow, whichever is greater, and produce a "low frequency alarm signal" in accordance with NFPA 72:18.4.5 (2010 edition)?	
☐ Yes ☐ No ☐ N/A	The <u>visible characteristics</u> (<i>light, color, and pulse</i>) are provided in accordance with NFPA 72: 18.5 & "room spacing" for wall mounting in accordance with T-18.5.4.3.1 (a) and the plans indicate the specific candela per each individual device?	
☐ Yes ☐ No ☐ N/A	The <u>visible characteristics</u> (<i>light, color, and pulse</i>) are provided in accordance with NFPA 72: 18.5 & "room spacing" for ceiling mounting in accordance with T-18.5.4.3.1 (b) and the plans indicate the specific candela per each individual device? ?	
☐ Yes ☐ No ☐ N/A	Location of visible notification devices installed in Corridors (if applicable) are provided in accordance with NFPA 72:18.5.4.4 (2010 edition)?	
Yes No N/A	<u>Location of visible notification</u> devices installed in Corridors (if applicable) are located not more than 15 ft. from the end of a corridor and with a separation not greater than 100 ft. between appliances in accordance with NFPA 72:18.5.4.4.4(2010 edition)?	
Yes No N/A	Alarm notification devices are installed in all general usage area such as rest rooms, meeting rooms, hallways, lobbies, and any other area for common use per ADA 4.28	



Initiating Devices		
	Manual Fire Alarm Boxes (Pull Stations)	
	No pull stations are installed per exceptions per 2014 IBC Section 907? (List	
☐ Yes ☐ No ☐ N/A	Exceptions Taken and Skip to the next section).	
	Manual fire alarm boxes are mounted not more than 5 feet from the entrance to each	
Yes No N/A	marked exit per 2014 IBC 907.4.2.1?	
☐ Yes ☐ No ☐ N/A	Manual fire alarm boxes are mounted so the travel distance to each pull station does	
	not exceed two hundred feet (200') per 2014 IBC 907.4.2.1?	
Yes No N/A	The height of pull station shall be a minimum of forty-two inches (42") and maximum	
	of forty-eight (48") above the floor per 2014 IBC 907.4.2.2?	
	Grouped exit egress doors greater than forty feet (40') in width are equipped with a	
☐ Yes ☐ No ☐ N/A	manual fire alarm box on each side of the opening within five (5') of each side of the	
	opening per NFPA 72:17.14.7 (2010 edition)?	
Yes No N/A	Manual fire alarm boxes shall be red in color NFPA:72:17.14.1.2 (2010 edition)?	
	When the fire alarm system is not monitored by a supervising station, a permanent	
☐ Yes ☐ No ☐ N/A	sign must be affixed adjacent to each pull station that reads: WHEN ALARM SOUNDS-	
	CALL FIRE DEPARTMENT per 2014 IBC 907.4.2.4?	
☐ Yes ☐ No ☐ N/A	If a "tamper proof" cover is provided, it must be listed for use with the proposed fire	
	alarm box per 2014 IBC 907.4.2.5?	
	A single pull station is installed where the fire alarm system is only equipped with	
☐ Yes ☐ No ☐ N/A	automatic detectors or waterflow switches and no other pull stations are installed per	
	NFPA 72:23.8.5.1.2 (2010 edition)? Location:	
	SMOKE & HEAT DETECTOR COVERAGE (17.5)	
	Total (Complete) Coverage- All rooms, halls, storage areas, basements, attics, lofts,	
☐ Yes ☐ No	spaces above suspended ceilings, and other subdivisions and accessible spaces (NFPA	
	72:17.5.3.1- 2010 edition)?	
	Partial Coverage- In accordance with appropriate prescriptive spacing and location	
☐ Yes ☐ No	criteria as required in the 2014 Indiana Building Code (NFPA 72:17.5.3.2- 2010	
	edition)? The Designer has consulted with the building owner and clearly	
	communicated the limitations of Non-Complete Coverage?	
☐ Yes ☐ No	Selective Coverage- Detection is not required by Code but installed to meet	
	performance objectives of building owner (NFPA 72: 17.5.3.3-2010 edition)?	
	No smoke alarms are to be installed.	
☐ Yes ☐ No		
SLOPED CEILINGS & HIGH CEILINGS (Peaked and Shed) 17.6.3.4 & 17.6.3.5		
JLOPED C	Are detectors located in area of a "ceiling slope of less than 30 degrees (slope of more	
☐ Yes ☐ No ☐ N/A	than 1 in 8)? (i.e., Shed Type) (If no, skip to next section) NFPA 72:17.6.3.4.1-2010?	
	Are detectors located in area of a "ceiling slope of <u>more than 30 degrees</u> (slope of	
☐ Yes ☐ No ☐ N/A	more than 1 in 8)? (i.e., Peaked Type) (If no, skip to next section) 17.6.3.4.1.2-2010Ed?	
	more than 1 m of: (i.e., reaked Type) (ii no, skip to next section) 17.0.5.4.1.2-2010Ed:	



Yes No N/A	Spacing and Location of detectors in "Sloped Ceiling" Areas in accordance with NFPA	
TesNON/A	72:17.6.3.4.2 (2010 edition)?	
	Spacing and Location of smoke/heat detectors in "Peaked Type Ceiling" Areas to be	
Yes No N/A	located no more than 4 inches and a maximum of 36 inches from the top of peak in	
	accordance with NFPA 72:6.3.4 (2010 edition)?	
	Detectors located in "High Ceiling" Areas 10 to 30 feet high, heat detector spacing	
Yes No N/A	shall be in accordance with NFPA 72:17.6.3.5 (2010 edition)?	
F	RAISED FLOORS and/or SUSPENDED CEILINGS (17.7.3.5)	
☐ Yes ☐ No ☐ N/A	Are detectors located in raised floor or suspended ceiling areas? (If no, skip to next	
	section)	
Yes No N/A	Detector spacing for <u>raised floors</u> shall be in accordance with NFPA 72:17.7.3.5.1	
TesNON/A	(2010 edition)?	
Yes No N/A	Detector spacing for suspended ceilings shall be in accordance with NFPA	
resNON/A	72:17.7.3.5.2 (2010 edition)?	
Smoke Alarms (Res	sidential Type Occupancies i.e., Apts, Hotels, Ass't Living/Nursing Homes)	
	Single- or multiple-station smoke alarms for Group R-1 installed in all sleeping areas	
Yes No N/A	and in every room leading to the path of egress from the sleeping area to the door	
	leading from the sleeping unit in accordance with 2014 IBC 907.2.11.1?	
	Single- or multiple-station smoke alarms for Group R-2, R-3, R-4 and I-1 installed in	
Yes No N/A	each room used for sleeping purposes, outside each sleeping area and in each story	
	within a dwelling unit per 2014 IBC 907.2.11.2?	
DVos DNo DN/A	Primary power for the smoke alarms from building power with a battery backup or	
Yes No N/A	connected to the emergency electrical system for Group R-1 per 2014 IBC 907.2.11.4?	
Yes No N/A	All smoke alarms for Groups R-1, are interconnected per 2014 IBC 907.2.11.3?	
	Audible Appliances (horns) are installed in sleeping areas and produce a "low	
∐ Yes ☐ No	frequency alarm signal" in accordance with NFPA 72:18.4.5 (2010 edition)?	
Smoke-Sensing Fire Detectors (17.7)		
Spot-Type Smoke Detectors		
	A smoke detector is installed at the Fire Alarm Control Panel (s) per NFPA 72:10-4.4	
Dyss DNs	(2010 edition). No other spot-type smoke detectors are to be installed.	
YesNo	Check Yes and Skip to next section.	
☐ Yes ☐ No	Ceiling mounted detectors on smooth ceilings are spaced at thirty (30) foot intervals	
	per NFPA 72:17.7.3.2.3.1 or Figure A.17.6.3.1.1(g) (2010 edition)?	
☐ Yes ☐ No ☐ N/A	Side wall detectors to be located between the ceiling and 12 inches down from the	
TesNON/A	ceiling to the top of the detector? NFPA 72: 17.7.3.2.1 (2010edition)?	
□ Vos □ No □ N/A	Ceiling mounted detectors in solid joist and beam construction designed in	
Yes No N/A	accordance with NFPA 72:17.7.3.2.4.1 through 17.7.3.2.4.6 (2010 Edition)?	
	Will smoke detectors be installed in the construction phase of the project (and if	
☐ Yes ☐ No ☐ N/A	true) will be protected from construction debris, dirt and damage during construction	
	(w/ protective covers), and cleaned and verified to function properly in accordance	



	with their listing by conducting sensitivity testing in accordance with NFPA
	72:17.7.1.11 (2010 edition)prior to obtaining Certificate of Occupancy Permit?
	Detectors installed in high air movement areas are spaced per NFPA 72 Table
☐ Yes ☐ No ☐ N/A	17.7.6.3.3.1 & Figure 17.7.6.3.3.1 in accordance with NFPA 72:17.7.6.3.3 (2010
	edition)
Yes No N/A	Smoke detectors in "High-Rack Storage" (exceeding 12 ft. in height) shall be in
	accordance with NFPA 72:17.7.6.2 (2010 edition)?
	Air Sampling Type Smoke Detectors (17.7.3.6)
Yes No	No air sampling type smoke detectors are to be installed. <i>Skip to next section</i> .
	The location of each sampling port is noted on the plans and spaced and located per
Yes No N/A	spacing of spot-type detectors in accordance with NFPA 72:17.7.3.2 (2010 edition)?
	Documentation is provided that shows the maximum air sample transport time does
☐ Yes ☐ No ☐ N/A	not exceed 120 seconds in accordance with NFPA 72:7.6.3.6.2 and manufacturer's
	listings (2010 edition)?
	System piping for air sampling detectors shall be labeled as "SMOKE DETECTOR
	SAMPLING TUBE—DO NOT DISTURB" (17.7.3.6.8) at the following locations:
Yes No N/A	At changes in direction or branches of piping
	At each side of penetrations of walls, floors, or other barriers
	I □
	At intervals on piping that provide visibility within the space, but no greater than
	At intervals on piping that provide visibility within the space, but no greater than 20 feet
	20 feet
	20 feet Projected Beam-Type Smoke Detectors (17.7.3.7)
Yes No	20 feet
	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in
Yes No	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section.
Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in
	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)?
Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated
Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition)
Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length
Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)?
Yes No N/A Yes No N/A Yes No N/A Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)? Duct Smoke Detectors (17.7.5.4.2)
Yes No N/A Yes No N/A Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)? Duct Smoke Detectors (17.7.5.4.2) No duct smoke detectors are to be installed. Skip to next section.
Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)? Duct Smoke Detectors (17.7.5.4.2) No duct smoke detectors are to be installed. Skip to next section. Location and Installation of Detectors in Air Duct Systems designed per NFPA
Yes No N/A Yes No N/A Yes No N/A Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)? Duct Smoke Detectors (17.7.5.4.2) No duct smoke detectors are to be installed. Skip to next section. Location and Installation of Detectors in Air Duct Systems designed per NFPA 72:17.7.5.5 (2010 edition)? Duct smoke detectors are installed in HVAC units that have a return air capacity greater than two thousand (2000) cfm's per 2014 IMC 606.2.1?
Yes No N/A Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)? Duct Smoke Detectors (17.7.5.4.2) No duct smoke detectors are to be installed. Skip to next section. Location and Installation of Detectors in Air Duct Systems designed per NFPA 72:17.7.5.5 (2010 edition)? Duct smoke detectors are installed in HVAC units that have a return air capacity
Yes No N/A	Projected Beam-Type Smoke Detectors (17.7.3.7) No projected beam-type smoke detectors are to be installed. Skip to next section. Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2010 edition)? Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2010 edition) The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)? Duct Smoke Detectors (17.7.5.4.2) No duct smoke detectors are to be installed. Skip to next section. Location and Installation of Detectors in Air Duct Systems designed per NFPA 72:17.7.5.5 (2010 edition)? Duct smoke detectors are installed in HVAC units that have a return air capacity greater than two thousand (2000) cfm's per 2014 IMC 606.2.1?



☐ Yes ☐ No ☐ N/A	Duct smoke detectors are installed where multiple HVAC systems share common supply or return air ducts or plenums with a design capacity greater than two thousand (2000) cfm's per 2014 IMC 606.2.2?
☐ Yes ☐ No ☐ N/A	Duct smoke detectors are installed in each story of the return system that serves two (2) or more stories with a design capacity greater than fifteen thousand (15,000) cfm's per 2014 IMC 606.2.3?
☐ Yes ☐ No ☐ N/A	Upon activation, the duct smoke detector will shut down the operation of the HVAC unit that it serves per 2014 IMC 606.4?
☐ Yes ☐ No ☐ N/A	The duct smoke detector is connected to the fire alarm system per 2014 IMC 606.4.1 and the activation of the detector initiates an audible and visual signal at a constantly attended location?
☐ Yes ☐ No ☐ N/A	The duct detector does not activate an audible and visual signal at a constantly attended location but activates the buildings alarm notification devices per 2014 IBC 907.3.1 exception 1?
☐ Yes ☐ No	Access is provided to each duct detector for periodic inspection, maintenance, and testing per 2014 IMC 606.3?
	Heat-Sensing Fire Detectors (17.6)
☐ Yes ☐ No	No heat detectors are to be installed. Skip to next section.
☐ Yes ☐ No ☐ N/A	RTI (<i>Response <u>Time Index</u></i>) & Set-Point <u>Temperature</u> listing documentation for spot- type heat detectors included with plan submittal in accordance with NFPA 72:17.6.1.4 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Heat-sensing fire detectors shall be marked with their listed operating temperature and/or where the alarm threshold is field adjustable be marked with their RTI per NFPA 72:17.6.2.2.2.2 & 3 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Side wall detectors are mounted between four (4) to twelve (12) inches from the top of the detector to the ceiling per NFPA 72-17.6.6.3.1 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Ceiling mounted detectors are not installed within four (4) inches of a sidewall to the nearest edge of the detector per NFPA 72-17.6.6.3.1 (2010 edition)?
☐ Yes ☐ No ☐ N/A	The heat detector is mounted on the bottom of the joist in solid joist construction per NFPA 72:17.6.3.2.2 (2010 edition)?
☐ Yes ☐ No ☐ N/A	The heat detectors are located on the bottom of a beam where the beam is projecting less than 12 inches in depth from below the ceiling and less than 96 inches (8 ft.) on center per NFPA 72:17.6.3.3.2 (2010 edition)?
Yes No N/A	Spacing of heat detectors for Beam (17.6.3.2) and Solid Joist Construction (17.6.3.3) are designed in accordance with NFPA 72 (2010 edition)?
Yes No N/A	Line-type heat detectors that are mounted on the ceiling or sidewall are not more than 20 inches from the ceiling per NFPA 72:17.6.3.1.3.2 (2010 edition)?
F	Radiant Energy –Sensing Fire Detectors Detection (17.8)
☐ Yes ☐ No ☐ N/A	No radiant energy-sensing fire detectors are to be installed. Skip to next section. (Flame Detectors, Spark/Ember Detectors, or Video Image Flame Detection)



☐ Yes ☐ No ☐ N/A	Documentation is provided showing that the type and quantity of detectors is in accordance with NFPA 72:17.8.2 and 17.8.2.1 (2010 edition)?		
	Documentation is provided showing the spacing of detectors in accordance with NFPA		
Yes No N/A	72:17.8.3 / 17.8.4 / 17.8.5 (2010 edition)?		
Yes No N/A	Line-type detection to be installed in accordance with NFPA:17.6.3.1.3.2 (2010 edition)?		
	Fire Suppression Systems		
Yes No N/A	There is no sprinkler or suppression system to be installed. <i>Skip to next section</i> .		
☐ Yes ☐ No ☐ N/A	The activation of an automatic fire suppression system shall activate the fire alarm system per NFPA 72:17.13 (2010 edition) and 2014 IBC 904.3.5. This shall include any of the following: Wet-chemical system, Dry-chemical system, Foam systems, Carbon dioxide systems, Halon systems, Clean-agent systems, and Commercial cooking systems?		
☐ Yes ☐ No ☐ N/A	Activation of the automatic sprinkler system activates the fire alarm system per 2014 IBC 903.4.?		
The following are monitored for the sprinkler system per 2014 IBC 903.4:			
	es controlling water supply		
Yes No No N/A Water tank level			
Yes No N/A Water tank temperature			
Yes No N/A Low air pressure			
Fire Pump Controllers			
Yes No N/A	The Alarm and Signal Devices on the controller for the fire pump or motor shall activate the fire alarm as required by NFPA 20 7-4.7 (a) (2010 edition)?		
☐ Yes ☐ No ☐ N/A	The loss of <u>any</u> phase at the line terminals of the motor contactor for the fire pump is monitored per NFPA 20 7-4.7(b) (2010 edition)?		
Yes No N/A	<u>Phase reversal</u> of line terminals to the motor contactor for the fire pump is monitored per NFPA 20 7-4.7(c) (2010 edition)?		
☐ Yes ☐ No ☐ N/A	The <u>alternate source of power</u> to the fire pump controller is monitored and shall indicate the alarm circuit when the alternate source of power is supplying power to the fire pump controller per NFPA 20 7-4.7(d) (2010 edition)?		
☐ Yes ☐ No ☐ N/A	A "pump running signal" on the fire pump shall be permitted to be a supervisory or		
1	alarm signal per NFPA 72: 23.8.5.9.1 (2010 edition)?		
☐ Yes ☐ No ☐ N/A	alarm signal per NFPA 72: 23.8.5.9.1 (2010 edition)? Signals, other than "pump running" on the fire pump shall be supervisory signals per NFPA 72:23.8.5.9.2 (2010 edition)?		
Yes No N/A	Signals, other than "pump running" on the fire pump shall be supervisory signals per		
Yes No N/A Yes No N/A	Signals, other than "pump running" on the fire pump shall be supervisory signals per NFPA 72:23.8.5.9.2 (2010 edition)?		



☐ Yes ☐ No ☐ N/A	Smoke detectors installed and spaced as required by 17.7.3 protecting a room, corridor, and/or enclosed space accomplish door release in accordance with NFPA 72:17.7.5.6.1 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Where smoke door is accomplished directly from the smoke detector, the detector shall be listed for releasing service in accordance with NFPA 72:17.7.5.6.3 (2010 edition)?
Yes No N/A	Location and spacing of smoke detectors are installed in accordance with NFPA 72:17.7.5.6.5.1 through 17.7.5.6.6.2 (2010 edition)?
	Elevator Recall for Fire Fighters' Service (21.3)
Yes No N/A	There are no elevators to be installed. Skip to end.
☐ Yes ☐ No ☐ N/A	Smoke detectors or other automatic fire detection devices installed and utilized for elevator recall are connected to the building fire alarm system in accordance with NFPA 72:21.3.1 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Buildings not equipped with a fire alarm system shall have a dedicated fire alarm system control unit and the control unit shall be permanently marked as "ELEVATOR RECALL CONTROL AND SUPERVISOR PANEL" the control unit is shown on the submitted drawings in accordance with NFPA 72:21.3.2 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Lobby smoke detectors are located within 21 feet of the centerline of each elevator door within the elevator bank under control of the detector in accordance with NFPA 72:21.3.5 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Smoke detectors are NOT installed in <u>unsprinklered</u> elevator hoistways unless they are installed to activate smoke relief equipment in accordance with NFPA 72:21.3.6 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Other automatic fire detection is installed for elevator recall because ambient conditions prohibit the installation of smoke detectors in accordance with NFPA 72:21.3.7 shall be "specifically intended" for these types of spaces (2010 edition)i.e., heat detectors with sufficient RTI and Temperature ratings?
☐ Yes ☐ No ☐ N/A	Any detector, when actuated that has initiated fire fighters recall shall also be annunciated at the Fire Alarm Control Unit(s) and remote annunciator(s) per NFPA 72:21.3.8 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Activated detectors in the elevator hoistway and machine room alert emergency personnel at the control unit and remote annunciators that the elevators are no longer safe to use in accordance with NFPA 72-21.3.9 (2010 edition)?
Yes No N/A	The activation of smoke detectors for <i>Elevator Recall</i> shall be provided in accordance with NFPA 72: 21.3.12.1 & 21.3.12.2 (2010 edition)?
	Elevator Shutdown
Yes No N/A	Heat detectors installed to shut down elevator power prior to sprinkler operation are listed with a lower temperature rating and higher sensitivity as compared to the sprinkler in accordance with NFPA 72:21.4.1 (2010 edition)?
Yes No N/A	Heat detectors installed to shut down elevator power are installed within 2 feet of each sprinkler head in accordance with the requirements of Chapter 17 or alternative



	engineering methods are used as specified in Annex B in accordance with NFPA		
	72:21.4.2 (2010 edition)?		
	Pressure or waterflow switches are used to shut down elevator power and the		
Yes No N/A	switches are not equipped with time-delay functions in accordance with NFPA		
	72:21.4.3 (2010 edition)?		
	Control circuits for elevator shutdown shall be monitored for the presence of		
DVos DNo DN/A	operating voltage and the loss of voltage shall initiate a supervisory signal at the		
☐ Yes ☐ No ☐ N/A	control unit and required remote annunciators in accordance with NFPA 72:21.4.4		
	(2010 edition)?		
□Yes □No □N/A	Initiating devices installed per 21.4.2 and 21.4.3 shall be monitored for integrity by the		
☐ Yes ☐ No ☐ N/A	fire alarm control unit in accordance with NFPA 72:21.4.5 (2010 edition)?		
ALL answers checked "N	O", must be provided with a detailed written narrative below.		



Written narrative providing "intent" and "system description"			
Ex. "Install 3 additional smoke detectors for newly installed meeting room"			

DISCLAIMER: The information presented above is the basic requirements for commercial construction and is not to be relied upon for the complete requirements for commercial construction. It is to your advantage to use a design professional or a professional contractor to assist you with those areas of construction with which you are unfamiliar. Unfamiliarity with the applicable codes may cause unplanned delays and unforeseen costs to comply with code regulations.

Owner or General Contract	<u>:or</u>		
(Printed Name)			
(Signature)			
(Date)			
(Company Name)			
(Email and Phone Contact)			
(Eman and Friend Contact)			



This **Commercial Kitchen Automatic Fire Suppression Worksheet** has been created to assure all documentation has been submitted to assist you in assuring proper plans and documentations has been submitted and reviewed by the White River Township Fire Department Fire Prevention Division to help streamline your project. It is required to be included as part of the Commercial Kitchen Hood Plan Review Submittal.

Please send a copy of this completed form to Safebuildings@wrtfd.org with appropriate signatures.

Project In	formation
Business Name:	
Address:	
Phone Number:	Email:
New or Existing Restaurant:	New or Existing Hood:
Owner/Occupant:	
Printed Name:	Signature:
Address:	
Phone Number:	Email:
System Designer:	
Printed Name:	Signature:
Address:	
Phone Number:	Email:
System Installer:	
Printed Name:	Signature:
Address:	
Phone Number:	Email:
	



Design Requirements					
	1. Has a Construction Design Release (CDR) from the State of Indiana been issued for				
Yes No N/A	your project? A CDR is required for a new Class 1 Structure or the remodel of a Class				
1 Structure per 675 IAC 12-6-3 and 12-6-4.					
Yes No N/A	2. Is the system designed to meet NFPA 17A Standard-2002 Edition (Wet Chemical				
	Extinguishing Systems- UL 300)?				
	3. Documentation provided by manufacturer included in application that				
Yes No N/A	certifies <u>designer</u> has acquired instruction necessary to safely design <u>Pre-Engineered</u>				
	Wet Chemical Systems (NFPA 17A)?				
Yes No N/A	4. You have submitted your plans to the appropriate Building Department?				
	Drawings (All of the following indicated)				
Yes No	5. Type and location of appliances				
Yes No	6. Means to ensure appliances correctly positioned				
	7. Fuel type: Gas Electric				
Yes No	8. Fuel Gas piping size and location				
Yes No	9. Location of fuel shut off devices (Mechanical / Electric gas valves)				
Yes No	10. Location of actuation control box				
Yes No	11. Chemical container location				
Yes No	12. Nozzle location and piping (all supply and branch piping indicated))				
Yes No	13. Nozzle flow points and total system flow points identified				
Yes No 14. Automatic Detection system (detector locations indicated)					
Yes No 15. Quantity and temperature of all fusible links identified					
Yes No	16. Manual pull station location(s)				
Yes No	17. Plenum and duct size(s) indicated				
	System Information				
18. Manufacturer of system to be installed:					
19. Model Number of system:					
20. Chemical Agent size (gal	lons):				
Yes No N/A	21. System shall be designed in accordance with manufacturer's instructions?				
	22. Designed on the basis of the flow and extinguishing characteristics of the chemical				
Yes No N/A	agent?				
Yes No N/A	23. Nozzles shall be placed in accordance with manufacturer's instructions?				
System Installation					
	24. Documentation provided by manufacturer included in application that				
☐ Yes ☐ No ☐ N/A	certifies installer has acquired instruction necessary to safely install Pre-Engineered				
Wet Chemical Systems (NFPA 17A)?					
Yes No N/A 25. Is this suppression system pre-owned or "used"?					
Yes No N/A	26. Agent container shall be readily accessible for inspection				
Yes No N/A	27. Agent container location not more than 8 feet above floor				



System Actuation provided with:				
Yes No N/A	28. Both Automatic and Manual activation?			
Yes No N/A	29. Both Automatic and Manual activation shall activate the Fire Alarm System (when			
applicable)				
	Automatic Activation			
	At least one (1) fusible link or heat detector shall be installed:			
Yes No N/A	30. Within 12 inches of the exhaust duct opening?			
Yes No N/A	31. At each branch "duct-to common duct" opening?			
	Manual Activation			
(Manual pull station prov	ided in accordance with mfg. instruction, for each individual system, and to be located at or near egress from the cooking area)			
	32. Minimum of 10 feet and a maximum of 20 feet from the kitchen exhaust system and			
Yes No N/A	not less than 42 inches or more than 48 inches above the floor?			
Yes No N/A	33. Provided with signage that clearly identifies system, (zone) coverage?			
Yes No N/A	34. Shall require a maximum force of 40 lbs?			
Yes No N/A	35. Shall require a maximum movement of 14 inches (or per mfg. instructions)?			
	"Automatic" Shutoff Devices			
Dyes DNe DN/A	36. All sources of fuel and electric power that produces heat to appliances under the			
Yes No N/A	hood shall shut down upon activation of suppression system?			
Yes No N/A	37. Makeup Air and/or Return Air shall shut down upon activation of suppression			
	system?			
Yes No N/A	38. Hood System Exhaust Air shall NOT shut down upon activation of suppression			
system, and must remain operational?				
	Portable Fire Extinguishers provided:			
Yes No N/A	39. Class K "portable" fire extinguisher(s) for wet chemical systems			
	40. Portable Extinguisher "placard" or sign must be placed near the extinguisher that			
Yes No N/A	states the "automatic fire extinguishing system shall be activated prior to using the			
	portable fire extinguisher".			
INFORMATION				
Required Inspections				
Pre-Drywall				
a. Kitchen Duct "light test" & "Duct Access Panels" with fire department.				
b. 1 st Layer of "Duct Wrap" to meet clearance to combustibles.				
c. 2 nd Layer of "Duct Wrap" to meet clearance to combustibles. (Note: this can be performed as a portion of the				
actual Above Ceiling Inspection)				
Kitchen Hood Suppression Final Inspection				
Kitchen Hood Suppression Systems that interface with the Fire Alarm System must have a qualified fire alarm				
system installer present during Hood Fire Suppression Final.				
Kitchen Hood Suppression Systems that interface with the Buildings HVAC System must have a qualified				
mechanical system installer present during Hood Suppression Final.				
Fire Suppression System Final Inspection				
Perform full function testing of Kitchen Hood Fire Suppression System.				



DISCLAIMER: The information presented above is the basic requirements for commercial construction and is not to be relied upon for the complete requirements for commercial construction. It is to your advantage to use a design professional or a professional contractor to assist you with those areas of construction with which you are unfamiliar. Unfamiliarity with the building codes may cause unplanned delays and unforeseen costs to comply with building code regulations. **Plan ahead!**

Owner or Genera	al Contractor
☐ I certify that	the information provided in this document is true and accurate.
(Printed Name)	
(Signature)	
(Date)	_
(Company Name	
(Email and Phone	e Contact)



FIRE DEPT				
All answers checked "NO", must be provided with a detailed written narrative below:				



This example illustrates the minimum information required for plan submittal for a type I hood fire suppression system.

