EC QUICK REFERENCE GUIDE DHS/FEMA Region IX Version Date: August 2007	Federal Emergency Management Agency Expi	B No. 1660-0008 bires February 28, 2009	SECTION B: Complete all items (B1-12) as described. Complete EC using FIRM panel for the building's location in effect at time of certification.	
□ If any item does not apply to building, enter "N/A" for not applicable.		and the second first and the second second	If a LOMA or LOMR-F has been issued by FEMA, provide letter date &	
□ Comments in this guide cannot & are not intended to apply to all situations.		urance Company Use:	case number in the Comments area of Section D or Section G, as appropriate.	
Delease refer to the "Elevation Certificate & Instructions" for details.	A1. Building Owner's Name Policy N	Number	For a building in an area annexed by one community but shown on another community's FIRM, enter: (1) the community name & 6-digit	
SECTION A: A1A4. Enter building owner(s), address of building being)	IN NAIC NUMBER	number of the annexing community in Item B1, (2) the name of the new county in Item B2, and (3) the FIRM index date for the annexing community in Item B6. Enter information from actual FIRM panel that shows building location, even if it is the FIRM for previous jurisdiction, in Items B4, B5, B7, B8, & B9. B1. Enter complete name of community in which building is located &	
certified & lot and block numbers. If address is a rural route or a P. O. box, enter lot & block numbers, tax parcel number, legal description, or a brief		/		
location description based on distance & direction from a fixed point of reference. A map may be attached to show building location on property.	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)			
 A5. Provide latitude & longitude coordinates for center of front of building. Use either decimal degrees (e.g., 39.5043°, -110.7585°) to at least 4 decimal places or better, or degrees, minutes, seconds (e.g., 39° 30' 15.5", -110° 45' 30.7") with seconds to at least 1 decimal place or better. The lat & long coordinates must be accurate within 66 feet. If 	A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) A5. Latitude/Longitude: Lat. Long. Horizontal Datum: NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. Horizontal Datum: NAD 1927 NAD 1983 A7. Building Diagram Number		 associated 6-digit community number. For a newly incorporated commuse name and 6-digit number of the new community. B2. Enter county or counties where community is located. Where applienter "unincorporated area" or "independent city." B3. Enter 2-letter state abbreviation (for example, VA, TX, CA). 	
the EC is being certified by other than a licensed surveyor, engineer, or architect, this info. is not required. Provide type of datum used to obtain lat & long. A6. For flood insurance through NFIP, provide at least 2 photos showing front & rear of building taken win 90 days of certification date with views confirming	a) Square footage of crawl space or enclosure(s) sq ft a) Square footage of attached garage b) No. of permanent flood openings in the orawl space or enclosure(s) walls within 1.0 foot abeve adjacent grade b) No. of permanent flood openings in walls within 1.0 foot abeve adjacent grade b) No. of permanent flood openings in walls within 1.0 foot abeve adjacent grade c) Total net area of flood openings in A8.b sq in c) Total net area of flood openings in	in the attached garage ent grade	B4B5. Map/Panel Number & Suffix: Enter 10-character "Map Number" "Community Panel Number" on FIRM where building is located. Enter suffix in Item B6. FIRM Index Date: enter effective date or map revised date on FIRM I B7. FIRM Panel Effective/Revised Date: enter map effective date or n	
building description & diagram number in Item A7. For split-level/multi-level	SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION		revised date on the FIRM panel (i.e., latest of all dates shown on map).	
areas, provide 2 additional photos with side views of building. All photos must be color & be at least 3"x3". Digital photographs are acceptable.	B1. NPIP Community Name & Community Number B2. County Name B3. State	/ //	 B8. Flood Zone(s): enter all flood zones, in which building is located. B9. Base Flood Elevation(s): using Flood Insurance Study (FIS) Profile, Floodway 	
A7. Enter appropriate diagram number (1 through 8) based on building type, as illustrated on Pages 6 & 7. If unsure of correct diagram number, select best option or provide a sketch or photograph of building & enter all elevations in C2.a-g.	Date Effective/Revised Date Zone(s) AO,	se Flood Elevation(s) (Zone), use base flood depth)	Data Table, or FIRM panel, locate building & enter all appropriate BFEs (or base flood depth for Zone AO) for each flood zone in Item B8. For BFE obtained from another source, enter in Item B9. For Zone A (w/o BFE), complete Section E & enter N/A in Item B9. Enter BFE in tenths of feet or tenths of meters in Puerto Rico.	
A8.a & A9.a: Provide square footage of crawl space or enclosure(s) below lowest elevated floor of elevated building and/or attached garage. Measure from the outside. Examples of elevated buildings constructed with crawl space & enclosure(s) are shown in Diagrams 6-8 on page 8. Use Diagram 2 or 4 for a building constructed with a crawl space floor below the exterior grade on all sides. A8.b-c & A9.b-c Enter in Item A8.b and/or A9.b number of permanent flood openings	B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.		 B10. Indicate source of BFE in Item B9. If "Other," describe source. B11. Indicate vertical elevation datum for BFE's on FIRM. Datum is shown in "Map Legend" and/or "Notes to Users" on the FIRM. B12. Indicate if building is located in a CBRS area or OPA. Information on CBRS areas & OPAs may be found at <u>www.fema.gov/fhm/fmc_cbrs.shtm.</u> 	
in crawl space / enclosure(s) walls / attached garage no higher than 1 foot above adjacent grade. Include openings in garage door no higher than 1 foot above adjacent grade. Estimate total <u>not</u> area of all permanent flood openings in square inches, excluding any bars, louvers, or other covers of permanent flood openings & enter total in Items A8.c and/or A9.c. If net area cannot be estimated, provide size of flood openings without consideration of any covers & indicate in Comments area type of cover in flood openings. If crawl space / enclosure(s) walls / garage have no permanent openings within 1 foot above adjacent grade, enter "0" (zero) in Items A8.b-c and/or A9.b-c.	C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction *A new Elevation Certificate will be required when construction of the building is complete. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-g below according to the building diagram specified in Item A7. Benchmark Utilized		 C2.a-d. Building elevations: In Items C2.a-c: measure, excluding any attached garage, & using the selected building diagram in Item A7. In A zones: measure elevation at top of each floor & complete Items C2.a & C2.b. Elevated on a crawl space, Diagram 8: enter elevation of top of crawl space floor in Item C2.a, whether or not crawl space has permanent flood openings. 	
SECTION C: For all zones except AO & A (without BFE), <u>or</u> if certificate is being used for a LOMA or LOMR-F. For Zone AO or Zone A (w/o BFE), complete Section E. To obtain all required elevations, it may be necessary to enter building. See	a) Top of bottom floor (including basement, crawl space, or enclosure floor) [feet meters (Puerto b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones only) [feet meters (Puerto d) Attached garage (top of slab) - Iov425t Potrt on Slab	o Rico only) o Rico only)	 Attached garage: measure lowest point of top of garage slab & complete Item C2.d. In V zones: complete Item C2.e after measuring elevation at bottom of lowest horizontal structural member supporting the floor (see drawing in Instructions). 	
Instructions, page 3, for more info. & tips on determining crawl space floor elevations. C1. A post-construction EC is required when construction is complete. □ For building under construction, include only surveyed elevations in Items C2.a.g. Enter elevations from construction plans/drawings in Comments area of Section D. □ Select "Finished Construction" <u>only</u> after all machinery and/or equipment (i.e., furnaces, hot water heaters, heat pumps, a/c, elevators & associated equipment) have been installed & grading around building is complete.	e) Lowest elevation of machinery or equipment servicing the building [feet] meters (Puerto (Describe type of equipment in Comments)] four [feet] meters (Puerto] feet] feet [feet] meters (Puerto] feet] feet [feet] meters (Puerto] feet]	o Rico only)	C2.e. Enter the lowest platform elevation of at least one of the following machinery & equipment items: elevators & their associated equipment, furnaces, hot water heaters, heat pumps & dv in an attached garage or enclosure or on an open utility platform that provides utility services for building. Indicate machinery/equipment type in the Comments area of Section D or Section G. For additional information on insurance & floodplain management, see Instructions.	
C2. A field survey is required for Items C2.a-g. Provide benchmark used, vertical datum for benchmark & any datum conversion necessary. Most control networks will assign a unique identifier for each benchmark. For example, National Goodetic Survey uses Permanent Identifier (PID). For benchmark utilized, provide PID or other unique identifier assigned by maintainer of benchmark. Also provide vertical datum for benchmark elevation. Show conversion from field survey datum used if it	I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Check here if comments are provided on back of form. Certifier's Name License Number Title	PLACE SEAL HERE	C2.Fg. Adjacent grade is elevation of ground, sidewalk, patio slab, or deck support immediately next to building. For Zone AO, use natural grade elevation, if available. If the certificate is to be used to support a request for a LOMA or LOMR-F: Provide in the Comments area the lowest adjacent grade elevation measured at the deck support or staris if lower than the building's lowest adjacent grade. Measure in tenths of feet or tenths of meters in Puerto Rico.	
differs from datum used for BFE entered in Item B9 & indicate conversion software used. All elevations for EC, including elevations for Items C2.a-g, must be referenced to datum on which BFE is based. Show datum conversion, if applicable, in this section or in Comments area of Section D. For property experiencing ground subsidence, the most recent reference mark elevations must be used for determining building elevations. If subsidence is involved, BFE should not be adjusted. Enter elevations in Items C2.a-g in tenths of feet or tenths of meters in Puerto Rico.	Address City State ZIP Code Signature Date Telephone FEMA Form 81-31, February 2006 See reverse side for continuation. Rep	places all previous editions	SECTION D: This section of the EC may be signed by only a land surveyor, engineer, or architect authorized by law to certify elevation information. Note certification statement & penalties. Place license number, seal (as allowed by State licensing board), signature, and the date in the box in Section D. Use the Comments area of Section D, on the back of the certificate, to provide datum, elevation, or other relevant information not specified on the front.	

Repeat address information from Section A in order to correctly	IMPORTANT: In these spaces, copy the corr			For Insurance Company Use:		
match pages 1 and 2.	Building Street Address (including Apt., Unit, Suite, an	d/or Bldg. No.) or P.O. Route and Box No.		Policy Number		
SECTION D (continued): When making copies, copy both	City	State	ZIP Code	Company NAIC Number		
sides of the certificate. Use comments area to provide datum,	SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)					
elevation, or other relevant information not specified on the front. For item C2.e, describe machinery/equipment type here.	Copy both sides of this Elevation Certificate for (1) cor					
For item C2.e, describe machinery/equipment type nere.	Comments			and the second sec		
			· · · · ·			
SECTION E: Complete if the building is located in Zone AO or						
Zone A (without BFE). Otherwise, complete Section C instead. To support a LOMA or a LOMR-F request, complete Sections A,		·				
B, and C. Explain in Section F Comments area if measurements	Signature	Date		Check here if attachmen	nts	
provided in Items E1-E4 are based on "natural grade."	SECTION E - BUILDING ELEVATION INFO	RMATION (SURVEY NOT REQUIRED)	FOR ZONE AO AN	D ZONE A (WITHOUT BFE)		
	For Zonce AO and A (without REE), complete Items E	1 E5 If the Certificate is intended to support	a LOMA or LOMB-E re	quest complete Sections A B		
E1.a The height (in tenths of feet or tenths of meters in Puerto Rico) of the top of the bottom floor (elevation C2.a in the applicable	of feet or tenths of meters in Puerto Rico) For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.					
diagram) above or below the highest adjacent grade (HAG).	E1. Provide elevation information for the following ar grade (HAG) and the lowest adjacent grade (LAG)			• •		
E1.b. The height (in tenths of feet or tenths of meters in Puerto	a) Top of bottom floor (including basement, craw	d space, or enclosure) is fe	et 🔲 meters 🔲 abo	ve or Delow the HAG.		
Rico) of the top of the bottom floor (elevation C2.a in the applicable diagram) above or below the lowest adjacent grade (LAG).	b) Top of bottom floor (including basement, craw	grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawl space, or enclosure) is feet feet meters above or below the HAG. b) Top of bottom floor (including basement, crawl space, or enclosure) is feet meters above or below the LAG. E2. For Building Diagrams 6-8 with permanent flood openings provided <u>in</u> Section A Items 8 and/or 9 (see page 8 of Instructions), the next higher floor				
	(elevation C2.b in the diagrams) of the building i	s feet 🛄 meters 🛄 a	above or 🔝 below the	HAG.)	
For buildings in Zone AO, the community's floodplain management ordinance requires the lowest floor of the building be elevated above	E3. Attached garage (top of slab) is	feet _ meters _ above or _ below	w the HAG.		I	
the highest adjacent grade at least as high as the depth number on the	E4. Top of platform of machinery and/or equipment s E5. Zone AO only: If no flood depth number is avails				t I	
FIRM. Buildings in Zone A (without BFE) may qualify for a lower insurance rate if an engineered BFE is developed at the site.	ordinance? Yes No Unknown. TI			,, j	Ĵ	
	SECTION F - PROPER	TY OWNER (OR OWNER'S REPRESE	NTATIVE) CERTIFI	CATION	\equiv	
	The property owner or owner's authorized representat			A-issued or community-issued BFE	5)	
SECTION G: The <u>community official</u> who is authorized by law or ordinance to administer the community's floodplain	or Zone AO must sign here. The statements in Section		nowledge.			
management ordinance can complete Sections A, B, C (or E), and	Property Owner's or Owner's Authorized Representati					
G of this Elevation Certificate.	Address	City	State	ZIP Code		
Section C of the Elevation Certificate records the elevation of various building components. The community must: (1)	Signature	Date	Telephone)		
determine the lowest floor of the building and (2) whether the	Comments					
building, as constructed, complies with the community's floodplain management ordinance. Completion of Section G by						
the community official will meet the floodplain management				Check here if attachme	ents	
documentation requirement.		ON G - COMMUNITY INFORMATION #			<u> </u>	
If the authorized community official completes Sections C, E, or G, complete the appropriate item(s) and sign this section.	The local official who is authorized by law or ordinance G of this Elevation Certificate. Complete the applicable				, and	
G, complete the appropriate iterit(s) and sign this section.	G1. The information in Section C was taken from	other documentation that has been signed an	id sealed by a licensed	surveyor, engineer, or architect wh	ho is	
G1.	authorized by law to certify elevation informat	-				
Check if Section C is completed with elevation data from other	G2. A community official completed Section E for G3. The following information (Items G4G9.) is p			ssued BPE) of Zone AO.		
documentation, including elevations obtained from the Community Rating System Elevation Software, that has been	G4. Permit Number G5. Date Pe			ance/Occupancy Issued	/	
signed and embossed by a licensed surveyor, engineer, or	G4. Permit Number			ance/occupancy issued	_	
architect who is authorized by law to certify elevation	G7. This permit has been issued for:					
information. Indicate the source of the elevation data and the date obtained in the Comments area of Section G.	G8. Elevation of as-built lowest floor (including baseme] feet 🛛 meters (PR			
□ If you are both a community official and a licensed land	G9. BFE or (in Zone AO) depth of flooding at the buildin		feet meters (PR) Datum	=	
surveyor, engineer, or architect authorized by law to certify elevation information, and you performed the actual survey for a	Local Official's Name	Title		- 14 - 111]	
building in Zones A1-A30, AE, AH, A (with BFE), VE, V1-	Community Name	Telephone			Ş	
V30, V (with BFE), AR, AR/A, AR/A1-A30, AR/AE, AR/AH, or AR/AO, you must also complete Section D.	Signature	Date			— I	
G2. Check if information is entered in Section E by the community	Comments			····		
for a building in Zone A (without a FEMA-issued or community-						
issued BFE) or Zone AO.						
,						
G3. Check if the information in Items G4G9. has been completed for community floodplain management purposes to document the				Check here if attachme	ents	

E2. For Building Diagrams 6-8 with permanent flood openings, he height (in tenths of feet or tenths of meters in Puerto Rico) of he next higher floor or elevated floor (elevation C2.b in the pplicable diagram) above or below the highest adjacent grade HAG).

E3. For an attached garage, the height (in tenths of feet or tenths of meters in Puerto Rico) of the top of garage slab. If this item does not apply to the building, enter "N/A" for not applicable.

E4. Platform elevation supporting the machinery and/or equipment servicing the building: enter height (in tenths of feet or tenths of meters in Puerto Rico), in relation to the highest adjacent grade (HAG) next to the building. Indicate machinery/ equipment type in the Comments area of Section F. If this item does not apply to the building, enter "N/A" for not applicable.

E5. For Zone AO without flood depth, the community will need to determine whether the top of the bottom floor is elevated in accordance with the community's floodplain management ordinance & certify this information in Section G.

SECTION F: This section is for certification of measurements aken by a property owner or property owner's representative in sections A, B, and E. The address entered must be the actual nailing address of the property owner or property owner's epresentative who provided the information on the certificate... Community officials completing Section E certify in Section G.

G4. Permit number or other identifier to key the Elevation Certificate to the permit issued for this building.

G5. Date permit issued for this building.

G6. Date Certificate of Compliance/Occupancy Issued or similar written official documentation of as-built lowest floor elevation was issued by the community as evidence that all work authorized by the floodplain development permit has been completed in accordance with the community's floodplain management laws or ordinances.

G7. Check "New Construction" or "Substantial Improvement."
See Elevation Certificate instructions or the community's
floodplain ordinances for definitions of "substantial
improvement" & "substantial damage."

G8. Determine & enter the as-built lowest floor elevation
(including basement) after building construction is complete &
final inspection has been made to confirm that the building is
built in accordance with the permit, the approved plans, and the
community's floodplain management laws or ordinances.
Indicate elevation datum used.

G9. Verify the specific BFE (or base flood depth) for this building using appropriate FIRM panel, FIS Profile, or other data source & indicate the elevation datum used.

Enter all listed information for community official: title, telephone number and name of community. Official must sign and date certificate.

When items G4-G9 are completed, use the comment section to document building compliance for building features such as machinery/equipment.