



NATIONAL FLOOD INSURANCE PROGRAM
FEMA PRODUCTION AND TECHNICAL SERVICES CONTRACTOR

October 19, 2020

Dr. Weixia Jin, PhD, P.E.
Coastal/H&H Engineer
Moffatt & Nichol
555 Anton Boulevard, Suite 400
Costa Mesa, CA 92626

IN REPLY REFER TO:
Case No.: 20-09-1631P
Community: City of Malibu and
Unincorporated Areas of Los
Angeles County, CA
Community No.: 060745 and 065043

316-AD

Dear Dr. Jin:

This responds to your request dated June 25, 2020, that the Department of Homeland Security's Federal Emergency Management Agency (FEMA) issue a revision to the Flood Insurance Rate Map (FIRM for Los Angeles County, California and Incorporated Areas. Pertinent information about the request is listed below.

Identifier:	Malibu Coastal LOMR (LA County)
Flooding Source:	Pacific Ocean
FIRM Panel(s) Affected:	06037C1511G, 06037C1519G, 06037C1536G, 06037C1537G, 06037C1538G, 06037C1539G, 06037C1541G, 06037C1542G, 06037C1543G, 06037C1561G, and 06037C1562G

The data required to complete our review, which must be submitted within 90 days of the date of this letter, are listed on the enclosed summary.

If we do not receive the required data within 90 days, we will suspend our processing of your request. Any data submitted after 90 days will be treated as an original submittal and will be subject to all submittal/payment procedures, including the flat review and processing fee for requests of this type established by the current fee schedule.

FEMA receives a very large volume of requests and cannot maintain inactive requests for an indefinite period of time. Therefore, we are unable to grant extensions for the submission of required data/fee for revision requests. If a requester is informed by letter that additional data are required to complete our review of a request, the data/fee **must** be submitted within 90 days of the date of the letter. Any fees already paid will be forfeited for any request for which the requested data are not received within 90 days.

LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426 PH: 1-877-FEMA MAP

**STARR II, under contract with the FEDERAL EMERGENCY MANAGEMENT AGENCY, is a
Production and Technical Services Contractor for the National Flood Insurance Program**

If you have general questions about your request, FEMA policy, or the National Flood Insurance Program, please call the FEMA Mapping and Insurance eXchange (FMIX), toll free, at 1-877-FEMA MAP (1-877-336-2627). If you have specific questions concerning your request, please contact your case reviewer Ms. Janice Zhuang, by e-mail at Janice.Zhuang@atkinsglobal.com or by telephone at (571) 551-5553, or the Revisions Coordinator for your request, Mr. Naresh Baliya, P.E., CFM, at Naresh.Baliya@atkinsglobal.com or at (301) 210-6966.

Sincerely,

A handwritten signature in black ink that reads "Daven Patel". The signature is written in a cursive, flowing style.

Daven Patel, P.E., CFM
MT-2 Technical Manager
STARR II

cc: Mr. Rob Duboux, Public Works Director, City of Malibu
Mr. Hassan Kasraie, P.E., CFM, Principal, Kasraie Consulting



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Summary of Additional Data Required to Support a Letter of Map Revision (LOMR)

Case No.: 20-09-1631P

Requestor: Dr. Weixia Jin, PhD, P.E.

Community: City of Malibu and Unincorporated Areas of Los Angeles County, CA
Community No.: 060745 and 065043

The issues listed below, as indicated in our August 11, 2020 email, must be addressed before we can continue the review of your request.

1. Our review revealed the Unincorporated Areas of Los Angeles County, CA are impacted by proposed LOMR revisions on preliminary FIRM panel 06037C1562G. Please provide community acknowledgment in the form of a letter stating that Los Angeles County, CA has reviewed the revision request and understands the effects of the revision on flooding conditions in the community, or a completed Application/Certification Form 1, entitled "Overview & Concurrence Form," signed by a community official.
2. Our review revealed additional proposed transects were included to conduct this LOMR analysis, as shown in the submitted topographic work maps. Please provide digital CAD or GIS data for the analyzed transects. Please ensure the digital data are spatially referenced and cite what projection (coordinate system, example: UTM/State Plane) was used, so that the data may be used for accurate mapping.
3. Our review revealed validation of scripts based on reproduction of results from the Intermediate Data Submittal #3 (IDS#3) technical report was submitted. However, validation was based on transects that were not included in this LOMR study area, but had analysis performed for all three runup approaches. Please also provide validation of the existing results for the transects used in this LOMR, including validation plots for the transects and Detailed_TWL_results for the original analysis.
4. Our review revealed the revised profile data and wave angle reduction factors were submitted. However, the wave angles at breaking relative to the transect geometry were not provided. Please provide the wave angles used in the analysis.
5. Our review revealed the submitted deepwater wave heights used for the LOMR calculations do not match those used in the FEMA preliminary study. For some of the highest peaks, the wave heights are nearly two feet lower compared to those used in the preliminary study, which impacts the nearshore wave height at the toe of the structure used in runup calculations. Please confirm that the SHELF data for the respective transects were used for LOMR calculations. Additionally, please provide justification for deviating from the deepwater wave heights used in the preliminary study.

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6. Our review revealed submitted output parameters for the peaks of peaks-over-threshold (POT) events for the transects. However, hourly time series outputs for each of the POT events were not provided. Please provide the hourly time series outputs to verify peak time steps. Additionally, please provide documentation on the intermediate overtopping values, such as H_{m0} and h^* for overtopping rates and V_C , α , h_C , z_G , and Cox-Machemel trajectory axis values for landward overtopping limits.
7. Please provide a statement from a registered professional engineer that individual legal notices were mailed to all property owners affected by any widening and/or shifting in the Special Flood Hazard Area, the area that would be inundated by the flood having a 1-percent of being equaled or exceeded in any given year (base flood) and/or increase in Base Flood Elevations. Please copy the community on this correspondence. You may submit a draft copy of the notification for verification of content, prior to distribution.

Please send the required data and/or fee directly to us at the address shown at the bottom of the first page attention to Ms. Janice Zhuang, STARR II. For identification purposes, please include the case number referenced above on all correspondence.