



F13: green circles to give the outer axial caps didn't exceed the load capacities of the columns but columns were taken out to initiate the progressive collapse (1) cited by NIST

MORE SERIOUS PROBLEMS WITH THE HULSEY/AE911 TRUTH WTC7 STUDY



1
00:00:05,030 --> 00:00:03,230
hi this is Mick Western Medibank nog in

2
00:00:07,280 --> 00:00:05,040
a recent video this video here I

3
00:00:10,070 --> 00:00:07,290
identified some problems with the

4
00:00:11,870 --> 00:00:10,080
University of Alaska Fairbanks study

5
00:00:13,820 --> 00:00:11,880
which was carried out by Leroy Halsey

6
00:00:16,849 --> 00:00:13,830
and paid for by architects and engineers

7
00:00:18,859 --> 00:00:16,859
for 9/11 truth there were five issues

8
00:00:21,470 --> 00:00:18,869
that I raised and I found a few more but

9
00:00:24,500 --> 00:00:21,480
quickly let me go over the five that I

10
00:00:27,200 --> 00:00:24,510
found before so firstly was why does

11
00:00:29,000 --> 00:00:27,210
this bigger not show dynamic analysis

12
00:00:30,160 --> 00:00:29,010
why does it just instead share this kind

13
00:00:32,810 --> 00:00:30,170

of ridiculous

14

00:00:35,420 --> 00:00:32,820

tilting over to the side which is

15

00:00:38,330 --> 00:00:35,430

clearly not a dynamic analysis secondly

16

00:00:40,580 --> 00:00:38,340

what is the justification for using

17

00:00:42,200 --> 00:00:40,590

linear static analysis in this figure

18

00:00:45,920 --> 00:00:42,210

which is clearly showing something that

19

00:00:49,160 --> 00:00:45,930

is neither linear nor static then what

20

00:00:51,680 --> 00:00:49,170

is this animation derived from because

21

00:00:53,360 --> 00:00:51,690

it is not an actual dynamic analysis it

22

00:00:55,400 --> 00:00:53,370

appears just to be a kind of hand

23

00:00:57,470 --> 00:00:55,410

animation made with a bit of simple box

24

00:01:00,380 --> 00:00:57,480

physics put it in there so it's not a

25

00:01:02,270 --> 00:01:00,390

dynamic analysis but it claims to be one

26

00:01:04,850 --> 00:01:02,280

in the report then there's the issue of

27

00:01:06,800 --> 00:01:04,860

why are they focusing so much on this

28

00:01:09,170 --> 00:01:06,810

connection when NIST don't actually use

29

00:01:11,480 --> 00:01:09,180

it in their global collapse model

30

00:01:13,760 --> 00:01:11,490

although they use it as a initiating

31

00:01:15,289 --> 00:01:13,770

event hypothesis hypothesis is not

32

00:01:19,190 --> 00:01:15,299

actually used in the global collapse

33

00:01:21,800 --> 00:01:19,200

model and finally why is why did Hulsey

34

00:01:24,289 --> 00:01:21,810

say that this global model only modeled

35

00:01:27,469 --> 00:01:24,299

it partially when in fact miss global

36

00:01:28,999 --> 00:01:27,479

model was fine and they did a partial

37

00:01:31,520 --> 00:01:29,009

model for that and this model which is a

38

00:01:33,800 --> 00:01:31,530

different thing but let's get into the

39

00:01:35,539 --> 00:01:33,810

new issues I found some new problems

40

00:01:38,420 --> 00:01:35,549

with horses report which I think are

41

00:01:39,620 --> 00:01:38,430

pretty significant perhaps even more

42

00:01:42,440 --> 00:01:39,630

significant than the ones in the

43

00:01:42,950 --> 00:01:42,450

previous video so let's get right into

44

00:01:46,609 --> 00:01:42,960

it

45

00:01:49,280 --> 00:01:46,619

this is hostas report the draft report

46

00:01:54,010 --> 00:01:49,290

of his four year long study which was

47

00:01:57,740 --> 00:01:54,020

released on 9 3 2 1930 September 2019

48

00:01:59,679 --> 00:01:57,750

this is the result of static linear

49

00:02:02,359 --> 00:01:59,689

analysis where he's trying to simulate

50

00:02:04,399 --> 00:02:02,369

mists hypothesis that these three

51
00:02:07,039 --> 00:02:04,409
columns failed and that caused the

52
00:02:09,440 --> 00:02:07,049
collapse of the building this is a plan

53
00:02:13,460 --> 00:02:09,450
view so it's a view from above and it is

54
00:02:15,350 --> 00:02:13,470
floor 413 identified as floor 13

55
00:02:22,280 --> 00:02:15,360
in the slides which we'll come to later

56
00:02:23,990 --> 00:02:22,290
and it actually is showing this here

57
00:02:26,260 --> 00:02:24,000
this is building seven at the top of

58
00:02:29,660 --> 00:02:26,270
building seven we have the penthouse on

59
00:02:31,100 --> 00:02:29,670
one side and that would be underneath

60
00:02:33,080 --> 00:02:31,110
these columns and you know the penthouse

61
00:02:36,350 --> 00:02:33,090
collapses first so obviously these

62
00:02:37,310 --> 00:02:36,360
columns have to collapse first if things

63
00:02:40,430 --> 00:02:37,320

are to make any sense

64

00:02:42,680 --> 00:02:40,440

so what they did is they took the

65

00:02:44,510 --> 00:02:42,690

building itself and they stuck it in a

66

00:02:46,780 --> 00:02:44,520

linear static analysis and this

67

00:02:49,760 --> 00:02:46,790

calculates all the loads on the columns

68

00:02:50,870 --> 00:02:49,770

then they identify these through three

69

00:02:53,090 --> 00:02:50,880

columns that they're going to remove

70

00:02:55,670 --> 00:02:53,100

this this headline is a bit slightly

71

00:02:57,140 --> 00:02:55,680

wrong this is not the analysis of them

72

00:02:58,520 --> 00:02:57,150

being removed this is before they are

73

00:03:00,470 --> 00:02:58,530

removed so they removed and then we get

74

00:03:04,010 --> 00:03:00,480

to this situation here loads are

75

00:03:05,480 --> 00:03:04,020

redistributed then they identify three

76

00:03:06,770 --> 00:03:05,490

more columns that they're going to

77

00:03:08,120 --> 00:03:06,780

remove because it hasn't collapsed yet

78

00:03:09,500 --> 00:03:08,130

so they figure I will just take out

79

00:03:13,340 --> 00:03:09,510

three more columns and I'll make it

80

00:03:16,070 --> 00:03:13,350

collapse so on the next page we have the

81

00:03:19,880 --> 00:03:16,080

result of what happens after that these

82

00:03:21,229 --> 00:03:19,890

six columns are missing here so now all

83

00:03:24,470 --> 00:03:21,239

these columns down here are now

84

00:03:26,600 --> 00:03:24,480

overloaded and since they're overloaded

85

00:03:28,280 --> 00:03:26,610

they're removed and the simulation is

86

00:03:31,100 --> 00:03:28,290

run again this is what you do ecstatic

87

00:03:33,020 --> 00:03:31,110

simulations you you run it and then you

88

00:03:34,250 --> 00:03:33,030

see what the loads are on everything and

89

00:03:36,280 --> 00:03:34,260

then if something is failed you can

90

00:03:39,590 --> 00:03:36,290

remove it and then you can run it again

91

00:03:41,270 --> 00:03:39,600

so they ran it again and then with these

92

00:03:43,970 --> 00:03:41,280

columns removed and it shows that all

93

00:03:46,340 --> 00:03:43,980

these columns are now overloaded and so

94

00:03:47,930 --> 00:03:46,350

they obviously they can remove those in

95

00:03:50,270 --> 00:03:47,940

the next run of the simulation so they

96

00:03:52,100 --> 00:03:50,280

remove those now they say the building

97

00:03:52,699 --> 00:03:52,110

is tipping downwards so we get some of

98

00:03:53,990 --> 00:03:52,709

these columns

99

00:03:56,420 --> 00:03:54,000

the blue ones here are actually in

100

00:03:58,400 --> 00:03:56,430

tension they're being all up rather than

101
00:04:01,160 --> 00:03:58,410
being compressed down all these are

102
00:04:03,250 --> 00:04:01,170
overloaded so they're all gonna fail and

103
00:04:06,050 --> 00:04:03,260
then they write again and eventually

104
00:04:08,300 --> 00:04:06,060
everything has failed in the building

105
00:04:12,320 --> 00:04:08,310
falls down and they say that this

106
00:04:15,800 --> 00:04:12,330
results in what we see here this results

107
00:04:18,620 --> 00:04:15,810
in the building tipping over and now the

108
00:04:20,300 --> 00:04:18,630
problem is that whole see on the same

109
00:04:22,730 --> 00:04:20,310
day this report was released September

110
00:04:24,230 --> 00:04:22,740
3rd he did a presentation where he

111
00:04:26,930 --> 00:04:24,240
presented the findings of this result

112
00:04:28,880 --> 00:04:26,940
and he presented what you see here

113
00:04:30,590 --> 00:04:28,890

but the problem is he didn't actually

114

00:04:34,520 --> 00:04:30,600

present the same thing he presented a

115

00:04:36,830 --> 00:04:34,530

different model if we have a look at

116

00:04:39,230 --> 00:04:36,840

what he presented I was just gonna go

117

00:04:42,260 --> 00:04:39,240

through it and we'll all comment on what

118

00:04:44,150 --> 00:04:42,270

we what we see so here is a professor

119

00:04:45,590 --> 00:04:44,160

Halsey and it's gonna describe and

120

00:04:48,230 --> 00:04:45,600

what's going because it collapse

121

00:04:50,930 --> 00:04:48,240

simulation for NIST assumption now

122

00:04:53,480 --> 00:04:50,940

here's where we what we were doing was

123

00:04:57,740 --> 00:04:53,490

showing you what we found what I'm going

124

00:04:59,810 --> 00:04:57,750

to do is share with you what miss said

125

00:05:02,570 --> 00:04:59,820

had to happen and we're going to show

126
00:05:04,910 --> 00:05:02,580
you our the response computer response

127
00:05:07,340 --> 00:05:04,920
to that okay so this is healthy

128
00:05:09,350 --> 00:05:07,350
explaining what we just saw in these

129
00:05:12,740 --> 00:05:09,360
these slides you don't slice these

130
00:05:14,120 --> 00:05:12,750
figures in the report how they remove

131
00:05:15,950 --> 00:05:14,130
some columns and it caused the building

132
00:05:19,160 --> 00:05:15,960
to collapse so let's carry on and see

133
00:05:21,200 --> 00:05:19,170
what happens the simulation was based on

134
00:05:23,510 --> 00:05:21,210
this assumption that column 79 buckled

135
00:05:26,090 --> 00:05:23,520
at 413 which led to the global failure

136
00:05:27,680 --> 00:05:26,100
of the building the progressive collapse

137
00:05:30,200 --> 00:05:27,690
was simulated with the help of static

138
00:05:32,720 --> 00:05:30,210

analysis by progressively taking away

139

00:05:34,250 --> 00:05:32,730

those columns have failed okay so he

140

00:05:36,110 --> 00:05:34,260

says here they progressively take away

141

00:05:37,910 --> 00:05:36,120

the columns that failed which is you

142

00:05:39,590 --> 00:05:37,920

know what we see in the report they and

143

00:05:41,420 --> 00:05:39,600

when a column failed like these columns

144

00:05:45,500 --> 00:05:41,430

that are circled in red here they take

145

00:05:47,870 --> 00:05:45,510

them away so when you take out some

146

00:05:49,640 --> 00:05:47,880

columns out the low it's still there

147

00:05:51,710 --> 00:05:49,650

it's got to be taken by something else

148

00:05:53,000 --> 00:05:51,720

right and so we progressively took them

149

00:05:55,040 --> 00:05:53,010

out and took them out and took them out

150

00:05:58,340 --> 00:05:55,050

to get a handle on what it looked like

151
00:06:00,290 --> 00:05:58,350
so okay just to reiterate what he said

152
00:06:01,550 --> 00:06:00,300
there when columns fail you take them

153
00:06:02,780 --> 00:06:01,560
out you progressive to take them out to

154
00:06:04,760 --> 00:06:02,790
take them out they come out and then the

155
00:06:06,290 --> 00:06:04,770
building eventually collapses he was

156
00:06:08,150 --> 00:06:06,300
taken taking these out and he takes all

157
00:06:11,390 --> 00:06:08,160
these out building collapses fair enough

158
00:06:14,270 --> 00:06:11,400
so he's explaining all of this then he

159
00:06:17,450 --> 00:06:14,280
shows started with the whole three

160
00:06:22,790 --> 00:06:17,460
dimensional building and here's what it

161
00:06:27,260 --> 00:06:22,800
started to happen by taking them out so

162
00:06:29,120 --> 00:06:27,270
it wasn't this is not the result of the

163
00:06:33,260 --> 00:06:29,130

analysis this is essentially an

164

00:06:35,020 --> 00:06:33,270

animation he set up to demonstrate what

165

00:06:37,340 --> 00:06:35,030

would happen if the building tipped over

166

00:06:38,330 --> 00:06:37,350

this is all its demonstrating it's not

167

00:06:39,950 --> 00:06:38,340

actually demonstrating anything

168

00:06:40,950 --> 00:06:39,960

physically it's just saying if the

169

00:06:42,629 --> 00:06:40,960

building tipped

170

00:06:44,700 --> 00:06:42,639

it would look like a building tipping

171

00:06:46,350 --> 00:06:44,710

over it's just a simple box it's put

172

00:06:47,879 --> 00:06:46,360

some a simple pivot in there somewhere

173

00:06:49,529 --> 00:06:47,889

and it's doing a little bit of physics

174

00:06:51,330 --> 00:06:49,539

to rotate the top box around the bottom

175

00:06:54,439 --> 00:06:51,340

box nothing else this is not the result

176

00:06:56,580 --> 00:06:54,449

of an analysis this is just a manual

177

00:06:58,409 --> 00:06:56,590

visualization of what's going on but

178

00:06:59,340 --> 00:06:58,419

it's gonna be an incongruous place to

179

00:07:01,620 --> 00:06:59,350

put it in here because we're actually

180

00:07:04,860 --> 00:07:01,630

talking about the static analysis so

181

00:07:07,159 --> 00:07:04,870

let's get back to the lab see it wasn't

182

00:07:10,499 --> 00:07:07,169

the collapse that they showed on there

183

00:07:12,900 --> 00:07:10,509

but this is what if you take the story

184

00:07:14,150 --> 00:07:12,910

and put it into the computer models this

185

00:07:17,610 --> 00:07:14,160

is what you're going to end up see

186

00:07:22,010 --> 00:07:17,620

tilting they said that wasn't a computer

187

00:07:25,710 --> 00:07:22,020

model that was a manually animated model

188

00:07:27,330 --> 00:07:25,720

which is what I was pretty confident I

189

00:07:29,010 --> 00:07:27,340

was gonna see when on the first day I

190

00:07:31,770 --> 00:07:29,020

started yes and looked at that centroid

191

00:07:35,029 --> 00:07:31,780

issue because I've done enough high-rise

192

00:07:38,760 --> 00:07:35,039

buildings to know that you know you

193

00:07:40,890 --> 00:07:38,770

they're not wanting to fail straight

194

00:07:43,499 --> 00:07:40,900

down unless they are uniformly

195

00:07:45,810 --> 00:07:43,509

distributed it's kind of an interesting

196

00:07:47,730 --> 00:07:45,820

statement high-rise buildings are not

197

00:07:51,480 --> 00:07:47,740

wanting to fail straight down unless

198

00:07:52,890 --> 00:07:51,490

they are uniformly distributed yeah well

199

00:07:57,540 --> 00:07:52,900

I'll have to take his word on that for

200

00:07:59,520 --> 00:07:57,550

now but let's just carry on yeah so the

201
00:08:02,820 --> 00:07:59,530
analysis was based on NIST assumption of

202
00:08:05,730 --> 00:08:02,830
column 79 buckling at 413 the static

203
00:08:08,730 --> 00:08:05,740
analysis started by failing column 79 80

204
00:08:10,620 --> 00:08:08,740
and 81 and even though through the

205
00:08:12,629 --> 00:08:10,630
amount an Alaia of forces and didn't

206
00:08:14,580 --> 00:08:12,639
exceed their design mode capacity you're

207
00:08:17,580 --> 00:08:14,590
going to see green circles what I'm

208
00:08:18,839 --> 00:08:17,590
getting right what he's getting at here

209
00:08:21,210 --> 00:08:18,849
is an interesting thing I listen to

210
00:08:23,010 --> 00:08:21,220
he'll see this is a key point in the

211
00:08:24,689 --> 00:08:23,020
conversation here and I think it

212
00:08:28,680 --> 00:08:24,699
indicates he doesn't really understand

213
00:08:31,560 --> 00:08:28,690

what's going on with his own slides do

214

00:08:33,839 --> 00:08:31,570

share with you green circles mean it

215

00:08:36,269 --> 00:08:33,849

didn't exceed the capacity red circles

216

00:08:39,089 --> 00:08:36,279

means the columns exceeded their design

217

00:08:41,579 --> 00:08:39,099

load capacitors okay so he said that the

218

00:08:43,920 --> 00:08:41,589

green circles mean that the column did

219

00:08:46,380 --> 00:08:43,930

not exceed his capacity and red circles

220

00:08:48,840 --> 00:08:46,390

means that they did exceed their

221

00:08:49,949 --> 00:08:48,850

capacity and you will notice here

222

00:08:51,510 --> 00:08:49,959

there's only three columns that are

223

00:08:53,760 --> 00:08:51,520

marked in green and the rest are not

224

00:08:54,750 --> 00:08:53,770

large at all so obviously that's not

225

00:08:56,400 --> 00:08:54,760

quite right

226

00:08:58,139 --> 00:08:56,410

this is just three combs that have been

227

00:09:00,120 --> 00:08:58,149

indicated none of the columns here are

228

00:09:01,769 --> 00:09:00,130

receding their design capacity yet but

229

00:09:04,769 --> 00:09:01,779

he's marked three columns as not

230

00:09:08,000 --> 00:09:04,779

exceeding their capacity well here we go

231

00:09:11,850 --> 00:09:08,010

there's three columns that get what

232

00:09:15,900 --> 00:09:11,860

exceeded or did not exceed so here LC is

233

00:09:17,790 --> 00:09:15,910

kind of slipping into his lecturing role

234

00:09:19,769 --> 00:09:17,800

here is trying to teach students did

235

00:09:21,420 --> 00:09:19,779

they exceed or not exceed nothing here

236

00:09:22,920 --> 00:09:21,430

is exceeding their design capacity but

237

00:09:25,139 --> 00:09:22,930

he's drawn three green circles around

238

00:09:26,490 --> 00:09:25,149

these columns for some reason well the

239

00:09:31,139 --> 00:09:26,500

reason is that they're going to be

240

00:09:33,509 --> 00:09:31,149

removed did not right so we don't see

241

00:09:38,280 --> 00:09:33,519

anything happening yet yes true still

242

00:09:41,579 --> 00:09:38,290

here is again nothing failed at column

243

00:09:43,110 --> 00:09:41,589

79 80 81 were removed but column 76 77

244

00:09:46,199 --> 00:09:43,120

and 80 were removed to initiate

245

00:09:49,590 --> 00:09:46,209

progressive collapse okay so these

246

00:09:52,650 --> 00:09:49,600

columns here the ones you can't see 79

247

00:09:57,120 --> 00:09:52,660

1881 will be here these are the columns

248

00:09:58,949 --> 00:09:57,130

marked in green columns 76 77 78 so to

249

00:10:00,900 --> 00:09:58,959

move those to initiate the progressive

250

00:10:04,079 --> 00:10:00,910

collapse not sure what this two refers

251
00:10:07,110 --> 00:10:04,089
to we took them out anyway all right

252
00:10:08,699 --> 00:10:07,120
here's a look at the floor system if you

253
00:10:10,710 --> 00:10:08,709
look at it from the side this actually

254
00:10:12,329 --> 00:10:10,720
would be kind of interesting Oh be good

255
00:10:13,860 --> 00:10:12,339
to see this animation and look at all

256
00:10:15,269 --> 00:10:13,870
this detail we have down here why don't

257
00:10:19,650 --> 00:10:15,279
we see animations of this type of thing

258
00:10:21,540 --> 00:10:19,660
going on here we say after columns 76

259
00:10:23,900 --> 00:10:21,550
301 removed some of the columns started

260
00:10:26,129 --> 00:10:23,910
to fail so these red ones have failed

261
00:10:27,540 --> 00:10:26,139
these green ones have not failed in fact

262
00:10:29,040 --> 00:10:27,550
none of these ones over here a failed

263
00:10:32,850 --> 00:10:29,050

either but he's marked these green ones

264

00:10:35,340 --> 00:10:32,860

and it says here the green circles again

265

00:10:37,650 --> 00:10:35,350

signify the axleload didn't exceed the

266

00:10:38,939 --> 00:10:37,660

column load capacity but would fail just

267

00:10:42,090 --> 00:10:38,949

to keep the progressive collapse

268

00:10:46,259 --> 00:10:42,100

proceeding this means they manually

269

00:10:47,730 --> 00:10:46,269

removed these columns these columns that

270

00:10:49,860 --> 00:10:47,740

did not actually fail in their

271

00:10:51,689 --> 00:10:49,870

simulation but they manually remove them

272

00:10:53,910 --> 00:10:51,699

anyway this column here did not fail

273

00:10:58,439 --> 00:10:53,920

they manually removed it anyway these

274

00:10:59,879 --> 00:10:58,449

out as you move move forward so some of

275

00:11:02,880 --> 00:10:59,889

the columns started to fail and were

276

00:11:05,550 --> 00:11:02,890

significantly signified by the red and

277

00:11:06,929 --> 00:11:05,560

then the green circles again signified

278

00:11:08,600 --> 00:11:06,939

the extra load that didn't exceed the

279

00:11:12,750 --> 00:11:08,610

column looked past

280

00:11:14,670 --> 00:11:12,760

see there he completely neglected to

281

00:11:16,200 --> 00:11:14,680

point out that the green ones didn't

282

00:11:17,700 --> 00:11:16,210

actually just mean that the green ones

283

00:11:20,430 --> 00:11:17,710

were indicating the ones that they are

284

00:11:21,690 --> 00:11:20,440

manually removed then manually removed

285

00:11:23,820 --> 00:11:21,700

on columns and at this point I think

286

00:11:27,389 --> 00:11:23,830

it's worth going back to the report and

287

00:11:30,150 --> 00:11:27,399

if we look here why do we see we see red

288

00:11:32,579 --> 00:11:30,160

columns we see no green columns in this

289

00:11:35,420 --> 00:11:32,589

simulation they did not manually remove

290

00:11:38,610 --> 00:11:35,430

any of the columns notice this is

291

00:11:41,519 --> 00:11:38,620

directly after 76 or 81 were removed we

292

00:11:42,690 --> 00:11:41,529

get the same columns failing we get the

293

00:11:45,510 --> 00:11:42,700

same columns not failing

294

00:11:47,400 --> 00:11:45,520

however in holsters presentation this

295

00:11:53,370 --> 00:11:47,410

column and these three columns have been

296

00:11:54,930 --> 00:11:53,380

manually removed whereas here they have

297

00:11:58,170 --> 00:11:54,940

not been manually removed they actually

298

00:12:00,720 --> 00:11:58,180

fail later in the sequence by themselves

299

00:12:03,480 --> 00:12:00,730

noting manual is needed why is there

300

00:12:07,889 --> 00:12:03,490

this big difference let's carry on he's

301

00:12:09,360 --> 00:12:07,899

out as you move move forward so some of

302

00:12:12,360 --> 00:12:09,370

the columns started to fail and were

303

00:12:15,030 --> 00:12:12,370

significantly signified by the red and

304

00:12:16,380 --> 00:12:15,040

then the green circles again signified

305

00:12:19,260 --> 00:12:16,390

the extra loads that didn't exceed the

306

00:12:21,930 --> 00:12:19,270

column load capacity we keep taking them

307

00:12:23,519 --> 00:12:21,940

out taking them out now there's a very

308

00:12:28,230 --> 00:12:23,529

quickly slipped over that last slide

309

00:12:32,070 --> 00:12:28,240

there that's care about to it so again

310

00:12:33,720 --> 00:12:32,080

all these columns fail but for some

311

00:12:35,460 --> 00:12:33,730

reason they also had to remove these

312

00:12:37,079 --> 00:12:35,470

columns why did they have to remove

313

00:12:39,600 --> 00:12:37,089

these columns and surely the building is

314

00:12:41,579 --> 00:12:39,610

going to collapse if you let's let these

315

00:12:43,949 --> 00:12:41,589

columns alone but they manually went in

316

00:12:46,500 --> 00:12:43,959

and they manually remove these columns

317

00:12:51,180 --> 00:12:46,510

for some reason perhaps they remove them

318

00:12:53,250 --> 00:12:51,190

to get the results that they wanted we

319

00:12:55,530 --> 00:12:53,260

keep taking them out taking them out now

320

00:12:58,230 --> 00:12:55,540

there's no columns left and there's

321

00:13:00,660 --> 00:12:58,240

nothing there to carry the load and here

322

00:13:02,880 --> 00:13:00,670

by and eventually close we get to a

323

00:13:04,079 --> 00:13:02,890

state where pretty much every column has

324

00:13:06,630 --> 00:13:04,089

failed and so they don't have to worry

325

00:13:09,780 --> 00:13:06,640

about having to manually remove some

326

00:13:11,130 --> 00:13:09,790

additional columns so you can say the

327

00:13:13,230 --> 00:13:11,140

order they did things in they kind of

328

00:13:14,430 --> 00:13:13,240

removed these columns down here then

329

00:13:16,040 --> 00:13:14,440

they remove the ones in the middle and

330

00:13:17,970 --> 00:13:16,050

then they can remove the ones over here

331

00:13:21,569 --> 00:13:17,980

which would tend to make the building

332

00:13:22,260 --> 00:13:21,579

tip over in this direction so they were

333

00:13:25,139 --> 00:13:22,270

five

334

00:13:28,650 --> 00:13:25,149

see that it does not match the video so

335

00:13:31,560 --> 00:13:28,660

here the building is tipping southeast

336

00:13:32,880 --> 00:13:31,570

this is a very interesting diagram now

337

00:13:36,079 --> 00:13:32,890

you might have noticed in the report

338

00:13:38,760 --> 00:13:36,089

that we have the same the same diagram

339

00:13:41,810 --> 00:13:38,770

here it is this is a similar type of

340

00:13:44,750 --> 00:13:41,820

diagram let me just bring this in here

341

00:13:45,870 --> 00:13:44,760

so this is the presentation over here

342

00:13:55,410 --> 00:13:45,880

purple

343

00:13:58,079 --> 00:13:55,420

throughout the entire model it's also

344

00:14:01,590 --> 00:13:58,089

this this model has three more floors in

345

00:14:03,300 --> 00:14:01,600

it than the model in the reports which

346

00:14:05,970 --> 00:14:03,310

again is rather curious is giving a

347

00:14:07,380 --> 00:14:05,980

report a presentation on a report and

348

00:14:10,320 --> 00:14:07,390

yet is showing a completely different

349

00:14:12,990 --> 00:14:10,330

model another thing you'll notice about

350

00:14:15,900 --> 00:14:13,000

this model is that it has these weird

351
00:14:17,880 --> 00:14:15,910
glitches here this one here and this one

352
00:14:20,810 --> 00:14:17,890
over here now this glitch down here this

353
00:14:24,240 --> 00:14:20,820
kind of long kind of tail type thing

354
00:14:26,400 --> 00:14:24,250
down here is actually the reason it's

355
00:14:27,660 --> 00:14:26,410
all purple if you look at this scale

356
00:14:29,220 --> 00:14:27,670
over here this is showing the

357
00:14:31,260 --> 00:14:29,230
displacement of everything in the

358
00:14:33,750 --> 00:14:31,270
building in inches like how far it has

359
00:14:36,569 --> 00:14:33,760
moved and if we go back to the report

360
00:14:38,130 --> 00:14:36,579
itself we can see here this says a plus

361
00:14:40,530 --> 00:14:38,140
three which means it's n to the power of

362
00:14:42,329 --> 00:14:40,540
three or times a thousand and then these

363
00:14:44,040 --> 00:14:42,339

are numbers this is a two point one so

364

00:14:47,639 --> 00:14:44,050

this the one that's moves furthest is

365

00:14:48,960 --> 00:14:47,649

this green here which is about say 1.2

366

00:14:53,670 --> 00:14:48,970

times 10 to the 3

367

00:14:55,590 --> 00:14:53,680

so about 1,200 inches which is about a

368

00:14:57,960 --> 00:14:55,600

hundred feet which means that this green

369

00:14:59,730 --> 00:14:57,970

has moved about a hundred feet from its

370

00:15:00,000 --> 00:14:59,740

original position which seems about

371

00:15:03,300 --> 00:15:00,010

right

372

00:15:04,860 --> 00:15:03,310

based on the angle that we see here it's

373

00:15:06,210 --> 00:15:04,870

saying I don't know about twenty thirty

374

00:15:08,310 --> 00:15:06,220

degrees something like that but yeah

375

00:15:09,630 --> 00:15:08,320

this seems very consistent so this this

376
00:15:14,370 --> 00:15:09,640
is definitely measuring the displacement

377
00:15:19,400 --> 00:15:14,380
in inches of of this building but if we

378
00:15:23,699 --> 00:15:19,410
go back to this the slide show from

379
00:15:25,680 --> 00:15:23,709
houses presentation is all purple and if

380
00:15:28,380 --> 00:15:25,690
we look over here it's kind of hard to

381
00:15:31,350 --> 00:15:28,390
see but it actually seems to say e plus

382
00:15:33,840 --> 00:15:31,360
twelve which is considerably more than

383
00:15:34,740 --> 00:15:33,850
III is actually a billion times bigger

384
00:15:38,100 --> 00:15:34,750
and

385
00:15:41,280 --> 00:15:38,110
as here go all the way up to like 23

386
00:15:44,400 --> 00:15:41,290
times 10 to the 12 so 23 trillion inches

387
00:15:45,780 --> 00:15:44,410
and mostly buildings purple because most

388
00:15:48,180 --> 00:15:45,790

of the building really hasn't moved much

389

00:15:49,650 --> 00:15:48,190

more than you know something less than 1

390

00:15:52,650 --> 00:15:49,660

trillion inches so everything is less

391

00:15:56,190 --> 00:15:52,660

than 1 trillion inches range so what's

392

00:15:58,860 --> 00:15:56,200

actually happened is this bit here and

393

00:16:02,780 --> 00:15:58,870

this bit here have actually been offset

394

00:16:05,970 --> 00:16:02,790

by a very large amount thousands

395

00:16:07,410 --> 00:16:05,980

literally many thousands of feet if not

396

00:16:09,000 --> 00:16:07,420

millions of feet so there's some kind of

397

00:16:10,770 --> 00:16:09,010

weird glitch here it's all stretched out

398

00:16:12,090 --> 00:16:10,780

it's broken the basic that the model is

399

00:16:13,500 --> 00:16:12,100

broken it's no good you shouldn't be

400

00:16:16,380 --> 00:16:13,510

using a model like this because the

401
00:16:18,690 --> 00:16:16,390
geometry is all messed up carry on it's

402
00:16:22,230 --> 00:16:18,700
got like another view the same like in a

403
00:16:23,820 --> 00:16:22,240
chip mode and you can see it even more

404
00:16:25,020 --> 00:16:23,830
dramatically here this very long thing

405
00:16:26,700 --> 00:16:25,030
that's going down shooting off to

406
00:16:28,080 --> 00:16:26,710
somewhere those miles down below it's

407
00:16:30,210 --> 00:16:28,090
something else shooting off 2 miles down

408
00:16:32,130 --> 00:16:30,220
below it and then the scale here

409
00:16:33,870 --> 00:16:32,140
everything's down in the purple a little

410
00:16:37,680 --> 00:16:33,880
bit of red there so but definitely

411
00:16:39,750 --> 00:16:37,690
things are way off from what is real so

412
00:16:41,340 --> 00:16:39,760
you know that doesn't match any kind of

413
00:16:44,400 --> 00:16:41,350

reality so this is obviously some kind

414

00:16:47,100 --> 00:16:44,410

of broken model that he's using and we

415

00:16:48,840 --> 00:16:47,110

know it's a broken model because of this

416

00:16:50,520 --> 00:16:48,850

because of these glitches but also

417

00:16:52,980 --> 00:16:50,530

because they had to do all these these

418

00:16:56,010 --> 00:16:52,990

strange Colin removals they had to

419

00:16:58,770 --> 00:16:56,020

actually go in and manually remove the

420

00:17:01,140 --> 00:16:58,780

columns to make this model actually work

421

00:17:04,050 --> 00:17:01,150

to make it actually collapse but later

422

00:17:06,569 --> 00:17:04,060

on in the report they've got a model

423

00:17:09,270 --> 00:17:06,579

which they magically do not need to do

424

00:17:10,500 --> 00:17:09,280

this somehow they figured it all out and

425

00:17:12,090 --> 00:17:10,510

they've got a model that actually

426
00:17:15,150 --> 00:17:12,100
collapses by themselves so that means

427
00:17:18,569 --> 00:17:15,160
during the course of their study they

428
00:17:21,600 --> 00:17:18,579
had at least two models one of which

429
00:17:23,730 --> 00:17:21,610
Hulsey presents in his presentation one

430
00:17:25,559 --> 00:17:23,740
of which they put in their report if

431
00:17:26,939 --> 00:17:25,569
you've got two different models giving

432
00:17:28,860 --> 00:17:26,949
two completely different sets of results

433
00:17:33,750 --> 00:17:28,870
how do you know which is the correct

434
00:17:35,130 --> 00:17:33,760
model and that's why I say this is

435
00:17:37,230 --> 00:17:35,140
actually a bigger problem than the

436
00:17:38,850 --> 00:17:37,240
previous problems before it's actually

437
00:17:40,800 --> 00:17:38,860
showing that they don't actually have a

438
00:17:43,440 --> 00:17:40,810

valid model because if they've got two

439

00:17:45,270 --> 00:17:43,450

models which one's valid Hulseley gave an

440

00:17:47,250 --> 00:17:45,280

entire presentation with this messed up

441

00:17:48,270 --> 00:17:47,260

model is this the right model probably

442

00:17:51,750 --> 00:17:48,280

not

443

00:17:53,340 --> 00:17:51,760

the model in the in the report the right

444

00:17:54,840 --> 00:17:53,350

model well it's the model that gives

445

00:17:56,010 --> 00:17:54,850

better looking results so they've

446

00:17:59,220 --> 00:17:56,020

obviously tweaked it so it gives better

447

00:18:02,450 --> 00:17:59,230

looking results but is it right so let's

448

00:18:04,020 --> 00:18:02,460

sum up the problems with horses report

449

00:18:07,170 --> 00:18:04,030

boiled down to

450

00:18:10,070 --> 00:18:07,180

he's using static analysis this is

451
00:18:12,330 --> 00:18:10,080
static analysis for a dynamic situation

452
00:18:14,820 --> 00:18:12,340
building tipping over isn't something

453
00:18:16,410 --> 00:18:14,830
that you would use static analysis for

454
00:18:18,360 --> 00:18:16,420
because static means that the building

455
00:18:20,040 --> 00:18:18,370
isn't moving and when something's moving

456
00:18:22,920 --> 00:18:20,050
it's colliding with itself as all kinds

457
00:18:25,830 --> 00:18:22,930
of defatation defatation means nonlinear

458
00:18:28,020 --> 00:18:25,840
response and this is a linear static

459
00:18:30,780 --> 00:18:28,030
analysis for a situation which is

460
00:18:33,420 --> 00:18:30,790
dynamic and nonlinear you should not

461
00:18:35,910 --> 00:18:33,430
have used that to simulate this far into

462
00:18:37,590 --> 00:18:35,920
the simulation is fine to remove one

463
00:18:39,180 --> 00:18:37,600

column and then see how the load gets

464

00:18:40,470 --> 00:18:39,190

transferred to the other columns but you

465

00:18:44,280 --> 00:18:40,480

can't you were building tipping over

466

00:18:47,460 --> 00:18:44,290

because of this the next problem is that

467

00:18:50,190 --> 00:18:47,470

he doesn't have a dynamic analysis

468

00:18:52,650 --> 00:18:50,200

there's no dynamic analysis he says he

469

00:18:53,130 --> 00:18:52,660

has a dynamic analysis it says so right

470

00:18:56,430 --> 00:18:53,140

here

471

00:18:58,500 --> 00:18:56,440

dynamic analysis results he says this is

472

00:19:02,280 --> 00:18:58,510

the dynamic analysis results but it's

473

00:19:05,730 --> 00:19:02,290

not it is not dynamic analysis result

474

00:19:09,450 --> 00:19:05,740

this is one box rotating above another

475

00:19:13,910 --> 00:19:09,460

box probably set up very simply in in

476

00:19:16,350 --> 00:19:13,920

sap2000 with a pivot point and some mass

477

00:19:18,420 --> 00:19:16,360

system and then a little bit of gravity

478

00:19:20,220 --> 00:19:18,430

and it just rotates by itself it's not a

479

00:19:22,260 --> 00:19:20,230

dynamic analysis of the building it's a

480

00:19:24,480 --> 00:19:22,270

dynamic analysis of two boxes it's a

481

00:19:26,280 --> 00:19:24,490

dynamic analysis of this top box

482

00:19:29,270 --> 00:19:26,290

rotating around the bottom box it's not

483

00:19:32,190 --> 00:19:29,280

the result of a proper dynamic analysis

484

00:19:34,020 --> 00:19:32,200

so they've got a broken static analysis

485

00:19:36,060 --> 00:19:34,030

model that they're using inappropriately

486

00:19:37,620 --> 00:19:36,070

that has multiple versions that they've

487

00:19:39,270 --> 00:19:37,630

tweaked wonder which they had to hand

488

00:19:42,630 --> 00:19:39,280

you in to get it to do what they wanted

489

00:19:44,990 --> 00:19:42,640

to do and they don't have any proper

490

00:19:47,640 --> 00:19:45,000

dynamic analysis so I think this really

491

00:19:49,890 --> 00:19:47,650

raises some serious questions about the